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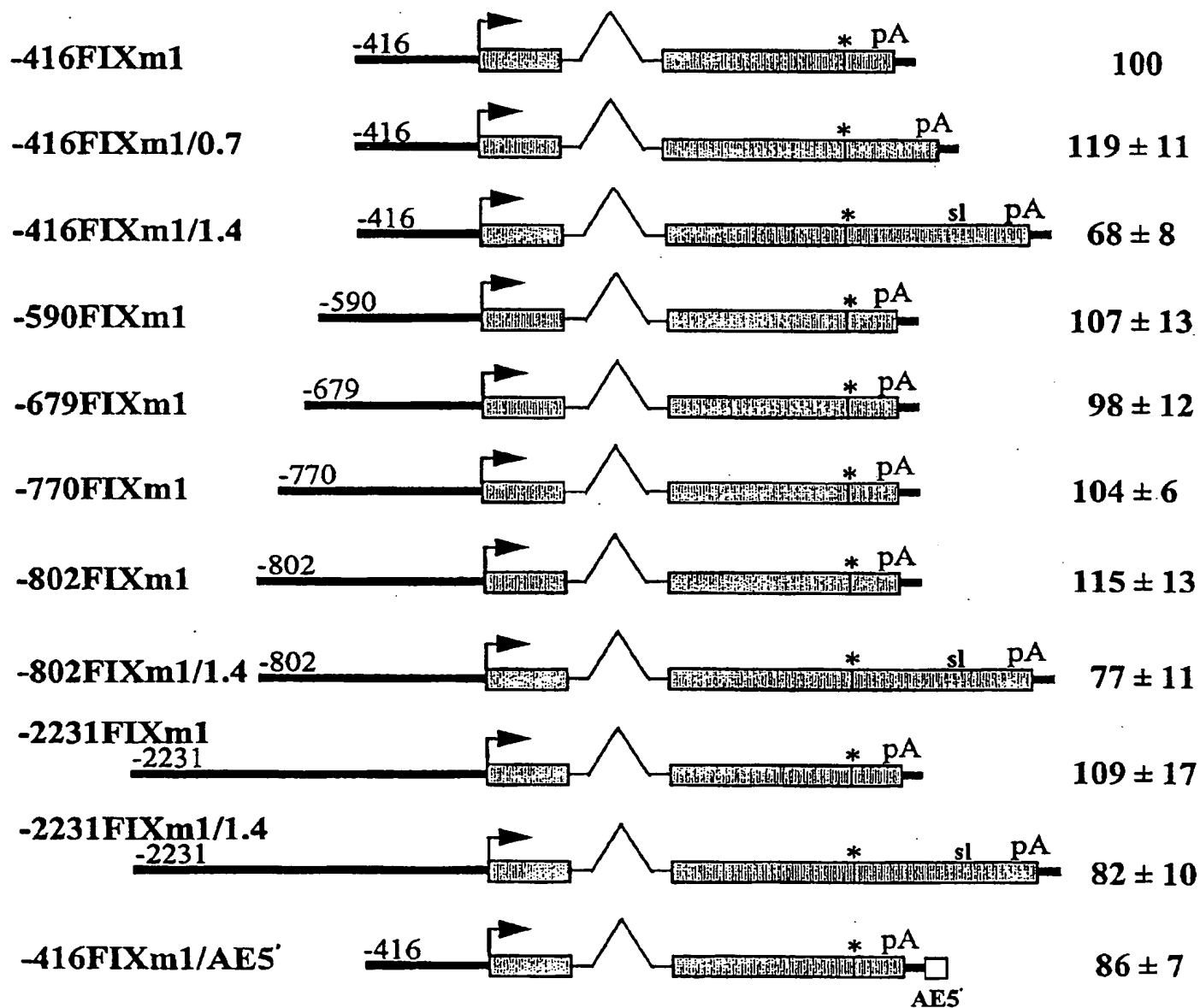
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Figure 1



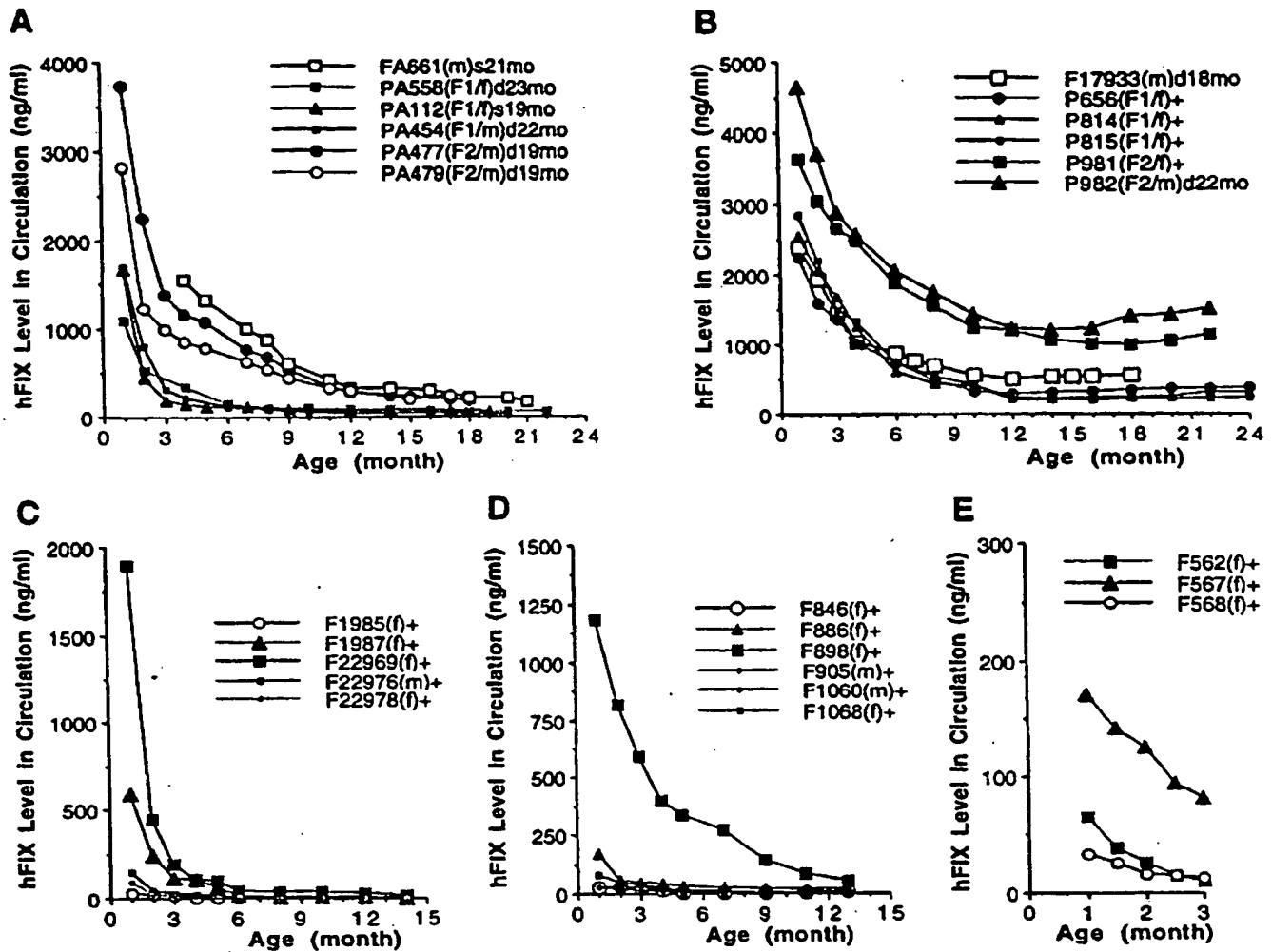
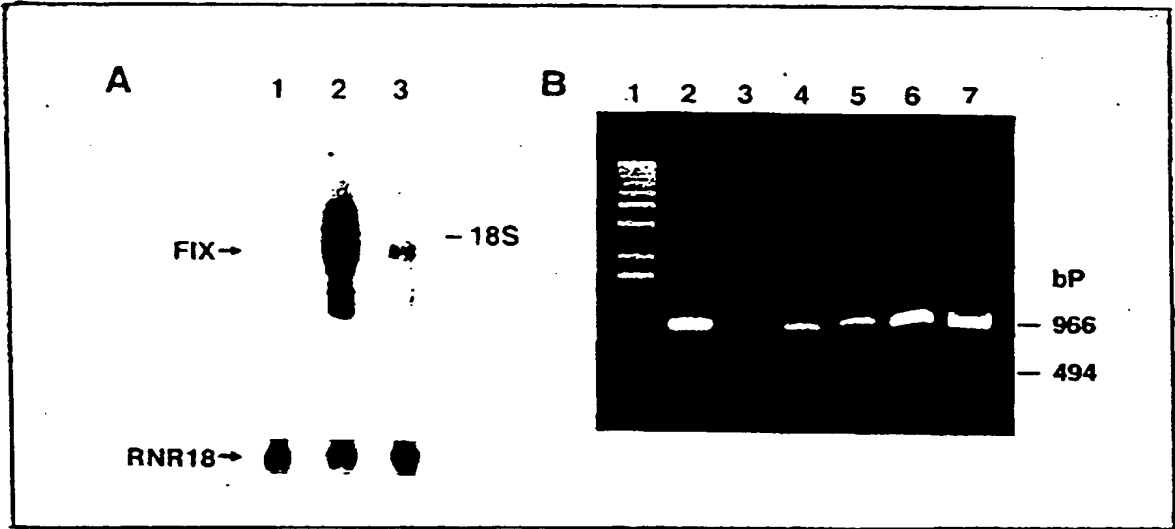


Figure 2

Figure 3



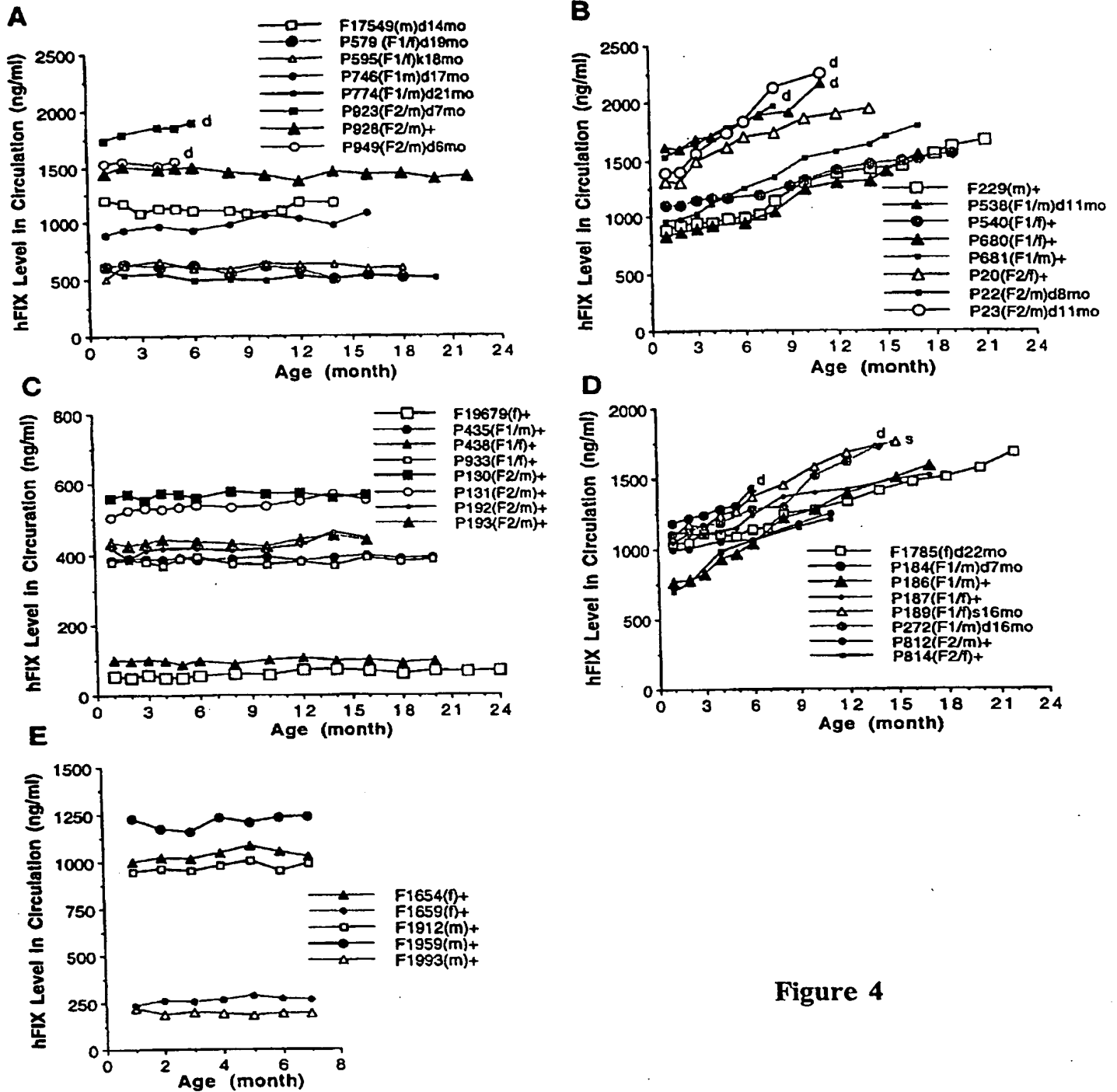


Figure 4

Figure 5

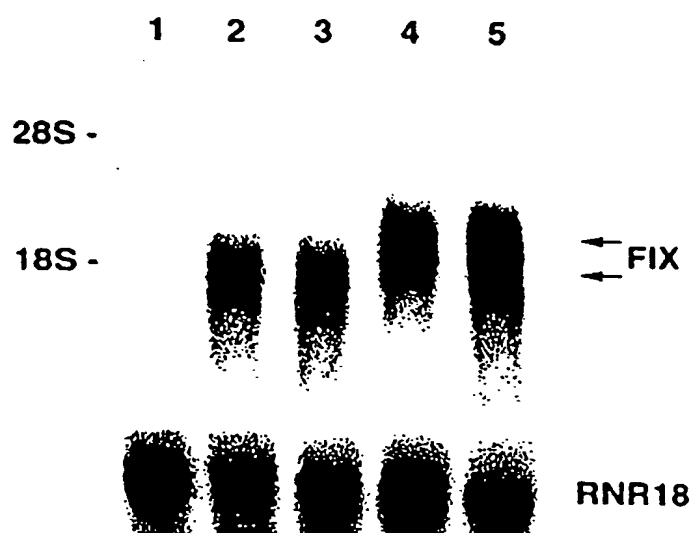
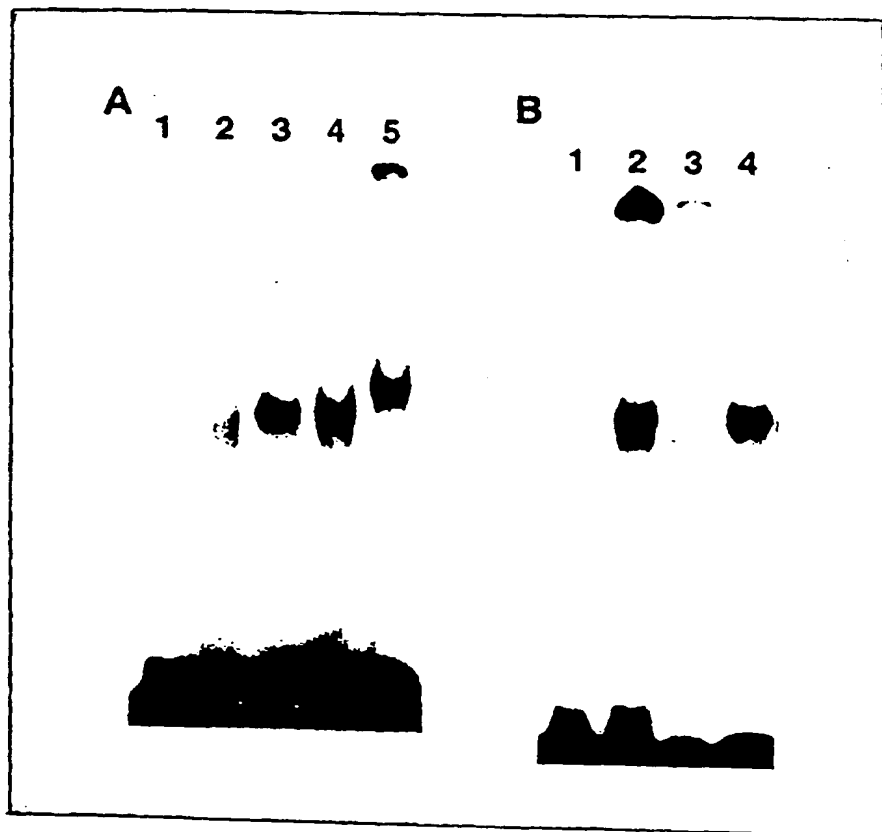


Figure 6



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Figure 7

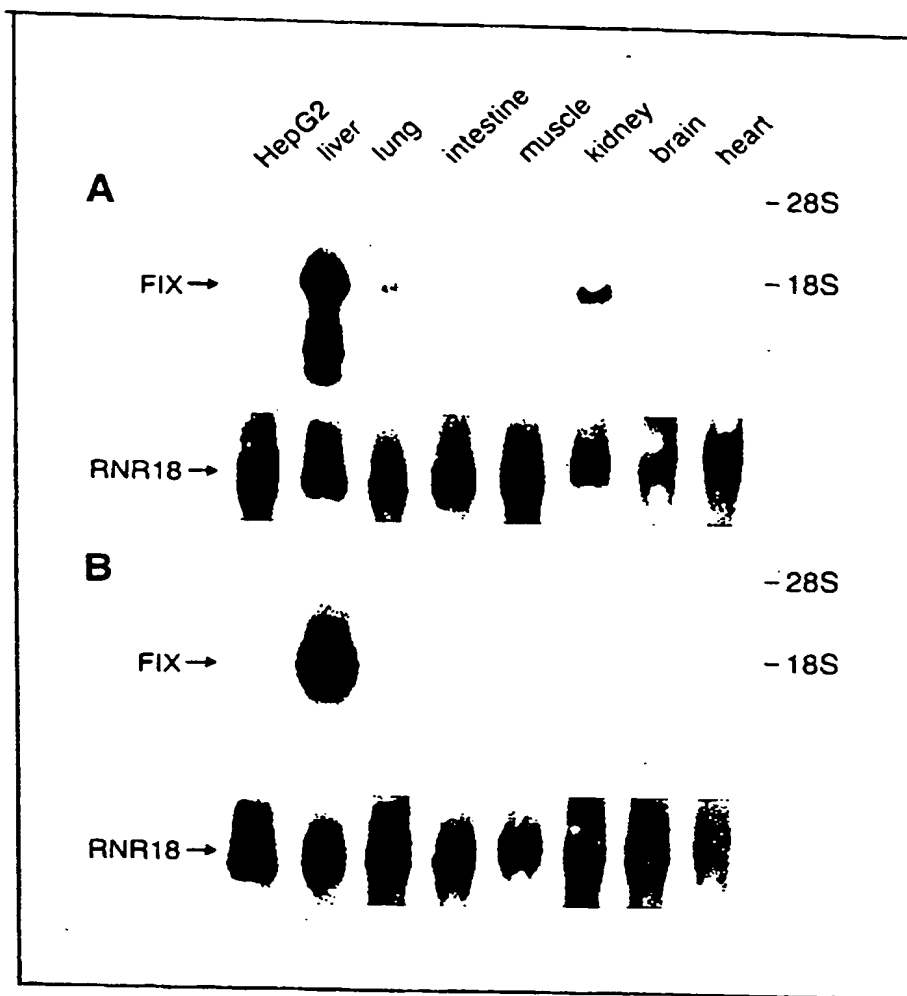


Figure 8A

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										-46	
										Met	
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Gln Arg Val Asn Met Ile Met Ala Glu Ser Pro Gly Leu Ile Thr Ile Cys Leu Leu Gly Tyr Leu Leu Ser Ala Glu Cys	CAG CGC GTG AAC ATG ATC ATG GCA GAA TCA CCA GGC CTC ATC ACC ATC TGC CTT TTA GGA TAT CTA CTC AGT GCT GAA TGT									113	
Thr	ACA G GTTT	CTTTCCTTTT	TTAAAATACA	TTGAGTATGC	TTGCCCTTTA	GATATAGAAA	TATCTGATGC	TGCTCTCTTC	ACTAAATTTT	GATTACATGA	211
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Figure 8B

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Val Phe Leu Asp His Glu Asn Ala Asn Lys Ile Leu Asn Arg Pro Lys Arg Tyr Asn Ser Gly Lys Leu										
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-1										
+1										
Glu Glu Phe Val Gln Gly Asn Leu Glu Arg Glu Cys Met Glu Glu Lys Cys Ser Phe Glu Glu Ala Arg Glu Val Phe Glu										
GAA GAG TTT	GTT CAA	GCG AAC	CTT GAG	AGA GAA	TGT ATG	GAA GAA	AAG TGT	AGT TTT	GAA GAA	6474
38										
Asn Thr Glu Arg Thr										
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ACATTACTAG	CATCTGTCAA	GACTTTCCAG	TTTACAAAG	GCCTATCACA	TTTAACTCTC	ACACCATCTT	TGTGACAAA	GCATTATTAA	CTCCATTTTA	8563
CAGGAGAGTA	AAGTGAAGCT	TAGGGAAGTT	AAAAGAACTG	CCAAAGGCTG	CCCATGTTGG	GAGTATCTAA	GCCCAAGAA	GAAGCCAAAT	TCTCTGCTGC	8663
TCACACCCCT	GTCTTACCTA	TTACACTCTA	GGGCTTCAA	ATCTAAATGC	AGTATTATCT	TAAACAGGAA	CCTGGTAGTC	TTAAAGCAGA	ATCTCTCACT	8763
TGGTAAGATC	TTGCTCTCTG	TTGATTTTGA	CCCAAACTGT	CTATGGCTTT	GCCTGAACCC	AAAGTACACA	CAGCCTAGAA	ACCAAGGAGG	AACCAATATG	8863
GGGATAAAT	GACACTAT	TTAACGACAT	GTCTCAGCAA	ATGATTTCTT	GTGTAGTCTG	CTGAAAGCCC	AGACCTTTTC	AGTAAACAT	CCTGAAATAAT	8963
TCACATTTGT	TGGTCTATAA	TATAAAGGCT	AAATGTAGCT	CATTTTTAGA	CCAGTCTCGA	ACATCAATAG	TAACAAACCA	GAGATAACCC	ATTTTGTTTT	9063
CATAGAAAT	GAACAAATTA	GAGTATCTGT	GCAAAAGCAT	ATCAGATCTA	GGAGCAGAGG	GGACAAAGTC	TAATTTTAA	ATAAGCAAT	TTTCCAGGGA	9163
GGGACTACTT	ATGATAAAGG	GATATTAGTC	TCTTAGTCAA	CGGAAGCTGG	ATACACGCTT	CTGACAGAGA	AGAGGGAGAA	TAGGCAAGAA	TCTACACACC	9263
AGATGTCAAG	GAGATTTCGT	TAAATATAGC	ACTGATAAT	AGAAATTTCT	CAGTTTCCC	TTTCTCCCCT	ATTTCTTGT	TCATTATTGT	ATCTTTATCT	9363
CTTACTCTCT	TTGTTCTCAT	ATATTGAGTC	TTACAGATCA	AGCTCCCAAT	TTTTTCTTCA	GGGGTATTT	TCTAGTTCAA	AGTGGCTACC	ATCTCCCTTC	9463
TGGTTCTATT	CACTTTCTCT	TCCCAAGCT	CCTTTAGAGT	TGTGATTAA	GGCAGGAC	TAAGAAACCA	GACTTAAAG	TTCCCTTCTC	ATCTGACTT	9563
TTCTCTTCT	ACCTATTCTT	TCTCTCTGTT	TTCTTACCAT	CAGTGTCTTC	AAAGGCTTTC	AAGTACAGG	TAAATGCAGA	AACCTCAAGA	AAGGCGAAT	9663
GGAAACATA	CCAAATGATA	CATAAATAA	GCACACTGTA	GAATCTTTT	AAATCTCTGA	TGATATATCG	AATGCTGCT	CTCACATTAC	CTAGACCATT	9763
TGAACCCGAA	TTTGTAAATC	ATAGACTATC	TTTAAAGTAT	ACAGATGCT	TTCTGACATGT	TTTCTATTGT	CTTGAACCAT	TACTGCATAT	GATACATCAA	9863
AGTTAAGTGA	CAATACAGGA	AAGCAGATTC	ATTGCTCTCC	TGCTTAGGCT	GTCAGTTCTT	AAAGTGGA	CGCCTATAT	TATCTAGCTC	AGTTTGTCTT	9963
ACAAAGCTG	CAATAGAGCC	TTGTTGTGCA	TAGAGATAAT	ATTTGTTGAA	CGAATTAAT	TTGACTTGGG	ATTAACCTCG	CCATCATCT	ATAAGGAAGG	10063
ATTGAAATCT	CTTCTCAGCC	TGCTGTGATA	TAGTACCTTT	CTATACAA	ACGCTCTCTC	CCCTCTTCCC	TTGGATTGCA	TAAACTATGT	ACATGCTCTC	10163
CTCAGGGGCA	CTTCTTAGG	ACAGTCTGAC	CCTAAGGATC	TTTGTTTGGG	TGGCTTTTAA	AAACTCAGGA	AGACAGGAGC	ATCATATGCC	TATAGGCGTC	10263
TGGCTTCCAG	GTCAGTAGTT	TTGCTCTGAC	CCTAATAATCA	GACTOCCATC	CCAATGAGTA	TCTACAGGGG	AGGACCGGGC	ATTCTAAGCA	GTTTACGTGC	10363
47										
CAATTCATTT	TCTTAACTTA	TCTCAAGAT	AT GGA	GAT CAG	TGT GAG	TCC AAT	CCA TGT	TTA AAT	GGC GGC	10450
84										
Asn Ser Tyr Glu Cys Trp Cys Pro Phe Gly Phe Glu Gly Lys Asn Cys Glu Leu										
AAT TCC TAT	GAA TGT	TGG TGT	CCC TTT	GGA TTT	GAA GGA	AAG AAC	GTA TTA	G	GT	10537
47										
AAAGTTTCCC	TCTGAAACAA	GTTGAAACTG	GAAATGCAA	TATTTGGTGA	TCATAATTTT	TCTTAAAAAC	ATACCTTTGA	TGCTTATAAA	CATTTCATTT	10637
GTAGTGATAG	TTTTCAGAT	ATGAGTTCAA	GAAGCTACAT	TAAATCAAT	AACAATATTT	GGTAACTAAT	ATTAAGTAAT	AATGATGTTT	CGACTCAGCT	10737
TATTTATCTT	TAAATCAACC	GTATGTGGTT	AGTACTATCA	TTATGGCCAT	TCTATGCGGA	TGAGAAAACC	GCAACTCCAA	CGGCCAAAAT	TTACAGAGGC	10837
ATAATATGTT	TAGACAGGAC	TTAAACTTCA	GTCTGACCAA	AACCCATGCT	TCTAATCTAT	ATATTCAAAA	CTCAGAGAAA	ACTGAAACCA	GAAATTTGAA	10937
ATCATGACTA	AATTCCTAT	AACATAGGTG	AAAGTCAATT	AAGTACAGAA	CTGGAGTATG	ACTGGCCAA	TATCCCATAT	AATGGGAATT	CTCCACATGT	11037
ACAAACCACT	TCATATGCTA	AACCTGTTGA	CAACATTCAA	AGCTCATCCC	TGAATTTGAC	TATATTGATT	ACATCGAAAA	TGTTACATAG	CAACCTTAGA	11137
ATCCTTGTGT	ACCTTTTCTT	CTCAAGGCTT	AGATTATTTC	TTTTTCCGAC	GTTTTCAGTA	ATTGGAGCAG	TAAACCCAGG	TGCTCCCTTA	CTACTTGTTT	11237
ATTACTTCCA	GATGCAATAT	TACTGGTACT	GTGATTGAGA	AACGCACACA	GTCTAGATGA	GGAAATTTCT	TTCTACTCTG	ACACTCTGGA	AGAAATGAGA	11337
TGCAATCTTA	AGGAAGATAT	TAAACACCA	GGCTACATGA	TAAAGGATAA	AGAGTACAAA	ATTAGCAGGA	CTCTATTAA	CGATTACAGC	AATCCACCTG	11437
ACAGATGAAA	AGGCAATGAA	ATGAAATGAA	ATGATGAGCA	TACACTGCTC	TATTTAGAAA	AGGAAAAAAG	TCACCTGTAA	TGTGTTTCTG	AAATCTTTTC	11537
AGTACTAAAA	AATTCATTGA	CCATCTTCTT	TTAGTCTCGA	AAATTTCTTA	GAAGGTAAAA	AAAGGAAAAAG	GTGACAGGGC	AAAGACATTT	GAAAGGAAAG	11637
AAAGAGTGA	ATGAACTTGC	ACACTGCTCT	TGGACTCCCT	ATTTCCCTTA	GGTTTCAAT	GTTGGGGACA	AACTAATGCC	TGGGTTACTT	TTTGTGAGAG	11737
TGTGTTAAT	GATTCAATAT	CTCTGAAGTG	CTACTTTTAT	CTGAAGAATT	ATAATTTGAA	ATTCAGATTT	ACCTGGATTA	TTTGTATCTT	GCTATTATGG	11837
AAACTCTAG	AAATCTTGGT	AGTATTTACT	CATTATCAG	TTAAATATG	TAGCTGGTGG	ATGAGTAGGA	ATGAGTAACT	CAATTAGTCT	GATTATCAAC	11937
TGAAGGOCAC	ATTTGTTGTA	ACTATAATTC	AAACATATA	TATCTTTACC	TAGTTTAA	AATAAAGAT	CTTTAAAGG	AGGAAGGGA	TAGCCCTGAG	12037
GAATGTAAAT	ATAAGCACA	AACCTTCTACA	ACAGAGTTTG	CTACGTTGT	GGCTGTGTTT	CACCCAGCAA	AAATGCTAAG	TCTACAATCT	ACACAACTTG	12137
GATACTCTCA	TGTTCCCA	TGTTTCTTGG	CTCAAGGCTG	TGCAGTGTGA	CTGACGGCCA	CCACCACTCC	TGGCCTCTAC	AGTATATTGA	TCTGACCCAC	12237
CAATCTGATC	AAGGTTTGA	AAAAATATTT	CAGCCGAGTT	AGCTCACA	CAAAATGAGA	ATTGCCACAA	ATTGCTCTTT	ATCTCAGACA	ACAGAGGAAA	12337
GCTACAGCAA	AAGCAATAAT	AATTTACAT	TTAAGTTTGT	TGCTTCAAT	TAAAGACTAA	TTGCAACAGC	TACTAGATAG	CATGTTTAT	GGGGATCTC	12437
GGCCCAAGT	CTTTTGTCTT	ATAAGGCTTT	GAAAAAAGA	AAGGATTTT	TCATCAATAA	GAGTTTGTG	TTATCTTTT	CCCTTGTGTA	CTAGGCCCTT	12537
CACCTGCGGA	GAGAGGCTGA	AACGTTCTAG	GCAATGCTG	TAGTTAAGA	ATATTAAATG	GCTATTGGGT	CCCTTTGGT	AGAAATAGAA	CCTCTGTATG	12637
ATGTCCTGAT	CTGTACATCA	AAACCAATA	TCTCTCAGAT	AAATGAAGT	CTGTAGAAAT	TTGCTCATTC	CTGCTCTTTC	TAAAGAGTAA	CAGAGGCAT	12737
TTCCCGCAGT	ATAGTAGAAT	GGAAAGAAAA	CAAAATACAC	AGGCTATATA	ACACCTTCTT	CAATTTTCCC	AGCATGTCAC	AGACACTACT	GCTTATTTA	12837
CTACGTATTT	CTGAGGAGTA	AAAAAGGAA	ATATGTTGAG	TTTAGCTGAA	GCACAGCATA	TTTGTGGTGA	AACCTGTTAA	ATAAACATCT	TTTTGTCCTA	12937
GCTTTGGTGT	TCACACAATG	GGAATATATA	GGAAATATA	AGGCAATAA	ACAAAGGAA	TACTAGTACT	ACATTTGTA	TAGCCATGAA	GGGAATAGAA	13037
AACTGTTTGT	CTTAACTAGG	AGGGAGGGAG	AACAGATGCT	TTGAGATGTT	CTTCAACAGA	TATTCTAGGC	ACTGAGACCC	CCTTCCGGAC	CAGKAGTAGC	13137
CCATATCCAC	CACAGTACTT	GACACATAAA	TGCTCAGTAA	TGATATAATG	AGTCCCACTC	TAACTGTCTC	TTAGCCCTGC	TCTATGGAAC	TCTGCCCTGA	13237
ATTCCTTGTG	CCATTTTGT	ATTCTCGGAA	TTTCTGAGCT	TTTAGCTGAG	AGCAAAAGAT	TGCTGATTAG	GAAGCAATAT	TTCCCACTCT	TCTCCGCAAA	13337
CAAGCCAAAG	ATCAACAGCA	GCAGCAACAT	ACTGAGCCCT	AAAGGGCAAT	GACAAATGTG	GAGAAATGATA	CAGAGGCTCT	GTACTTCTT	AGCCATGAC	13437
ACAGAATCAC	AATTGAGAAA	ACACAGAGTT	TATTTACTTC	CATTGTCAT	GCCTTGGACA	CACCAAGCTG	CACCTTCTG	AACTTATCAC	AATCTCATAT	13537

Figure 8C

TCACGGGAACA	CTTTCTACAG	GTAAATGTTTG	ATTTCGCTGA	ACACTTTAGC	ATTGCTTCGT	AGCAACAAAA	TGATAGCTAG	TAACAGAAAA	AGATCCAGGG	1363
ATATTACCAC	TCTTAGCTGAC	GAGAAAGGCC	TTTAAATTA	TTAATTAAT	AATTAATAGG	ACCAAGTCC	ATCTTTTGG	ATCATGCCCT	TAGTGGATTA	1373
TTGGTAGCAA	AGGTAAAGC	TCAAGCTGGT	TCTTTGTCC	CCCTGGCAAC	AGTTGATTTG	CCCTCCCTAT	CTCCTGAAGT	ACCGTAAGCA	CTAAGAGCCA	1383
ATATTACAT	TTGGCTATGC	TAGCATATGT	AAAATAGAGT	TTAAAAAGTT	AGATTATCA	CTCAAAAAT	CATATTCTCC	AAAACCATAT	AGTCACTCTG	1393
TTAGCTGTG	TTCCGCCAGA	AAAAAGTCA	CAAGCTTATT	ATTAACATGT	CCAATCCAGG	GGCAAGAGAA	AGGAACCTGAA	GATGAGGCCAG	AAAGGAAAG	1403
AAAGCCAATA	AGAGGATGAC	TTATCAAACT	ACTCGTTCT	TANCAGCAAC	TGATTGCTTA	ACTTCTCTGG	ACTGTCTCCA	ATAAGTCAAA	TTGGCTCTCAG	1413
CTTAGTCCAC	CTGAGTGGGA	GAAGAGCGGT	AAAGAAATTC	TCTGTGAGTA	TCTGTCTCTC	ATTTGGTTAGA	AGTTCCGACTT	ATGGGGAAT	AACTCCCTCA	1423
CATTCTCTAG	TTGGATAGCT	TGGGTACCAG	AGGCATATGG	CAGTCCATGCT	CAGCATGAAC	AGGGAAAGCTT	CAAGGCAAAA	GACACATAGT	GCAGCTATGA	1433
GCCAAGGCCAA	TTCAAGGATA	CACCCATAGG	AGGCTGGTTC	ACATCCACCC	AGAGCTTAATC	ACCACCATGC	TGGAAAAAGA	CACAGGTGAA	ACCTCCCTCA	1443
ATGAAGGTGC	TGCATAGGAG	GTATCTAATA	CAGTCACTCA	TTTCTAAACT	TTTCTAAACT	TGATTGCCACT	GACCACTGAG	CATTCTATT	GAAAGTTTAA	1453
CTGTCTGCAA	ACACGTACAC	AAGGGGAAAG	GTGTCTTACA	TTGTTTATGT	TCTGTGCTG	CTCTAGAAAC	AGAAATAGGC	TCAAGAGCAG	AGCTGTGTTT	1463
TCTTAATTC	GCAGGCTTAA	GCYAAAGT	CCTGAAACAT	GGTATCTCT	GTATTGCTTA	TTGCTATAGGA	GAAACAAAGC	GAAAGCACAG	TAATTAGAAA	1473
ATACAAACAA	ATATGCGAGA	ATAAGCCAAA	AATATCAGGA	AGACAAATTA	TTGTGAATG	GAATTAACAT	AATCTATTAA	TAATGACAA	TTTCAGCTTG	1483
CAGTAAATA	TTAAATGTA	TACTGTTAAC	GAAAGTGATA	CCTAAATAAA	AATTACACTG	GGAGGCCAAA	ATGAAGCGAT	TCGAAAGCAA	CTATCAGGTA	1493
AAACTAACA	AAAAGAACT	AGCAAGGCAA	TCTTAATATC	AGACAAAAT	GAATCCAAGT	GGAAATCAT	TTCAAAAGAC	AAGAGATTTT	TTTATTAAAT	1503
AAGGCAATCT	GCATAGGAGA	GTAAAGAAA	TGTGGGCCAC	TGGAATGCTT	AGACCTAATG	ACATATTGGT	CTTTGGTCTT	CAGGTACCTT	ACAGGACCTT	1513
ATTTCATTCT	CTTATGTTTG	ATATGTAAAC	ACCTCAGCCA	TCTTCAAGTT	GCCTTTTGGC	CCTAATGGAC	TTCTAGGAC	TATAATTTCT	TTTTTTTAA	1523
ATGTTTATAT	TTAGGTTTATG	GGGTACATGT	GAAGGTTTGT	TACATAGATA	ACATATGAT	AGAGGGGTTT	CTTGTACATA	TTATTTACAT	ACGAGATAT	1533
TCAGCTCAGT	ACCAATATGT	GATCTTTTCT	GCCTCTCTGC	CTCATCCAC	CTGCAGTAT	CAAGGGGTTT	CTTGTACATA	TGTGTTCTCT	CTTTGTGTTT	1543
ATAAGTCTCT	TACCTATAGC	TCCCGCTTAC	AAGTGAGAAC	CTGCAGTAT	GGCTGATATA	TATTTCTTGT	GTTCAGCTGA	GATGATAGCC	CTCAGCTCCA	1553
TTATATTTCC	CACAAAAGAC	ATAATCTCTCT	TCTTTTCTAT	GGCTGATATA	GTAAATTTCA	TATTTCTACT	TATATATGAA	CCACATTTTC	CTGTCTAGTC	1563
TGGGCTTTAA	GGTTGATTTT	ATGCTTCTCA	TTCTAAACAT	GTAAATTTCA	AGACATTTCA	GATTTCTACT	TTATAGGTAA	CTGTGTTAA	GTTCCTTTT	1573
TGGAGGCCAA	GCATTTCTTA	GAATAACTAA	GCATTAAGAA	TTACACTTCA	ATGCAGAAAG	GCAGTATCTA	CATGAGATTA	TGAAATTCGC	GTTCCTTTT	1583
CTGTTGCCCA	AAAAAATAAT	AAAAAATAAT	AACTTTTACA	AAAAATGAT	GTATCAATG	AGAACCCAAA	GCATCTAATC	AAATTAATA	TAATAGATA	1593
GAAGATTTAC	TGGATACAGA	GTCAACATAC	AAATATCAAT	TGTATGTCTA	TATACAGGCA	AGCATTTCAA	AATGATTTT	ATAATAGCAT	TAATAATTAG	1603
ACGCTTAGTA	ATAAATGCTG	CAAGAACTGC	TATAGTAAAT	ATATCAATG	TTTACGAGC	TTATTCAGAG	AAATTAAGGA	TAACCTAAT	AAATGAATGA	1613
ATAGGCTTAT	TTTATCATTA	AAGGATACAA	TATAGTAAAT	ATATCAATG	TTTACGAGC	TTATTCAGAG	AAATTAAGGA	TGCCAGCAGG	CTTTTTCGTT	1623
GTGGGAGGTT	CGGGCAGGAT	TCATAAGCTA	ATTATAGGAT	GCATATGGA	ATGCAGAAAG	CCAGAGGATG	CCAAGACACT	TTTGAAGGAG	ATAAATCTTG	1633
TACTACTTAC	ACTACCCAGT	CTCAAGACTT	ATTATCGAGT	TACATTTTAT	AAGCAGAGTG	GGTACTGACA	CAAGGATAGA	CAAAATAGAT	AGTGAATAC	1643
ACTAGAGTGC	TCAGAAGCAC	ACCTGTACAT	ATATAAGGC	TGTATTTATG	ATAGAGGTC	CAGTGCAGTA	GAGAAAGGAA	TATTTGGTGT	TTTCAATAAA	1653
AGTGTATAG	TCATATTAGT	ATCATATGG	CATGAAGTAT	GAACAATAAT	CAATTTATAT	TCATAACTTG	CAGAAAGCAA	AAATTTCTTA	ATAATCAAAA	1663
AGTGTACAC	ATAAAGGAAA	ACTGTGATAA	ACTGGACTAT	ATTAATACTA	AGGACTCTGT	TGCGAGAAA	GACACTACTT	CGACTGAAA	GACAAGTCA	1673
AGAGTGAGAC	AGATATAGT	CAATACAGAT	ACCTAATAAC	TGAACCCCAT	ACAGTATGG	TGGGAATTTA	AGTTCGTACA	AGCTTTTAC	AAATTTGCTT	1683
GGCAGTATCT	ACTAGATCTG	CAATAGTGAT	CCAGTAAATA	CACCTAATA	TATAAGCCAG	TAAAGAGGCA	TGTTTATGTC	ACCAAAAGAT	ATATACAGA	1693
ATGTTTATTA	CACATATTAA	CAATAGAGCC	AAAAACTGGA	ACAAACCCAA	ATATCCATTA	ACAGTAGAAT	GAATAAATA	AAAGCTGAAT	AGTAATACAG	1703
TGGAATACTA	TCAGGCAATG	TAAATGAAT	ACTGCTGTAC	AAAAACAAT	GGTTTAACT	CACAGACAAA	ATGTTAAATG	AAAGCACAG	ACGAGTACAT	1713
ATGCGCACT	TGTTTATTA	ATTCAGAAC	TGCTTACTGT	TGTTTACTGT	GTTAGAAGTC	CAGGTAAATG	TAACCTATAA	AAAGGAAAAA	GGGCTGAATG	1723
ATGCGGAGG	GGCATCTTCT	GGGCTCTTGA	TAAATGCTTA	ATTAATAAAT	AGGTTTATG	TTAAACAGGC	TCATTTACTT	TTGTAAAAAT	TACACTAAAA	1733
TGCTGTCTAT	TTTTTGAATA	TATGTTATAC	ATTAATAAAT	AGGTTTATG	AGTTTACTGT	TCATAATTTA	GTGAAAGTAG	AAATTCCTAA	CATTTAGTTT	1743
TAAACCAATC	AAATTAAGTG	CTACCATCAT	TATTGAGCAT	TATTGAGCAT	TTTATTTTAC	CTTTCTTTCC	ACTCTTATTT	CAAGGCTCCA	AAATTTCTCT	1753
CCCCAACGTA	TATTTGGGGC	AACATGAATG	CCCCCAATGT	ATATTGACG	CATACATGAG	TCAGTAGTTC	CATGTACTTT	TTAGAAATGC	ATGTTAAATG	1763

85

ANGCTGTTAC	TGCTATTTT	GCTTCTTTA	Asp Val Thr Cys Asn Ile Lys Asn Gly Arg Cys Glu Gln Phe Cys Lys Asn Ser Ala	17724
GAT AAC AAG GTG GTT TGC TCC TGT ACT GAG GGA	TAT CGA CTT GCA GAA AAC CAG AAG TCC TGT TGT AAA AAT AGT GCT	127	GAT AAC AAG GTG GTT TGC TCC TGT ACT GAG GGA	17807

Asp Asn Lys Val Thr Cys Ser Cys Thr Glu Gly Tyr Arg Leu Ala Glu Asn Gln Lys Ser Cys Glu Pro Ala	Act AAC AAG GTG GTT TGC TCC TGT ACT GAG GGA TAT CGA CTT GCA GAA AAC CAG AAG TCC TGT TGT AAA AAT AGT GCT	17724
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GATAAGAT	TTTTAAGAA	AATCTGTATC	TGAAACTTCA	GCATTTTAA	AAACCTACAT	AATTTTAAT	CCTACTTGAA	TCTGCTTCT	TTTGAATCA	17907
TAGAAATAT	CAGTACCTTT	ATCTAGACCA	ATTAATTTTC	TAGATTGCAT	CATATTTTAA	ATATAACTAT	GTAAATCATCT	ACAACCTGAA	TCCTTTCTGT	18007
GTCAATTTG	TCCAAATTTT	TTTCTAACA	TTTATATC	AAAGCAATTA	ATTTGTGTGA	TTTCTGCATA	TGTATTGTGA	ATTCATCAAG	TTCAATCAAT	18107
TGATTAATAT	TATATCATAA	AAATATACAA	ATAAATTTAG	TGATAGGCTT	CTAGTATAAG	CAGCGTAAGT	TTGAAGCATG	ATTCATATCT	GGCTGGCTAG	18207
TTATCTCTGA	GAAGATTAAT	TTTTATTTGT	GGGTCTTAAG	CTGAGTTTAT	ACACTTGGTG	TCAGAAATGT	TCCGGCAATG	AACTGTTCTA	TGTTCTGTGA	18307
GGTATGATCT	CACAAATCTAT	ATGGCTGTGT	ACAAACAAT	GTCTTCCAGT	CATACCAACC	ATGCCACCAT	TTTAAACAGT	CATTAGTGT	TTTCAAGAT	18407
CTCATCTCA	TGTTCTGATG	GCTGTATCT	AAAGATGAAA	GCAGTAGACA	CTTTTATTT	TTGAAATGAT	TAGGCTCTGC	AGGGTCAAT	ATATTGATA	18507
AATGAGGGG	TTTTTTGAAG	CAAACTAGAT	ATAATTTCTT	TGCTATTCTT	AAAGCTTGAT	ATCTTTTAA	TGCTGATCT	AAATTTGCA	CATTTTCTCT	18607
GTACTGTTT	CAGTACCTGT	CTCAGCAGTA	TACCAGGCA	AAGAAATAA	GTCCAGATC	AGCTTGGTCA	AGGAGACCTA	ATCTGCGGC	TTCTGCGGC	18707
ACTAGAGGAA	TTAAAGACAC	ACACACAGAA	ATAAGAGTA	TGCAAGTGGG	CAATCAGGGT	CTCAGAGCTC	TCAGAGCTGC	GAGCCCGGAA	CAGAGATTA	18807
CCACATATT	TATTTGACAG	AAGGCCAGTGA	TAAAGTTTAC	TGAAAGTAT	CTTTTGGGA	ATTAAGGGA	TGAGTCTGCG	TAGTTATCTG	CAGCAGGAC	18907
ATGCTCTAA	GGCAAAATCT	ACTATGCAA	TTGCTGTGG	TTTAAGAAC	ATACAGGAG	TATCAGAGTG	CTCAGAGAT	TTGTTTATG	AGGCTGTTCT	19007
TGCTGTATG	CTCTGTTCTT	CACATACACT	GTCTCAAGG	TAGGAAATTA	TATCTCTGAA	ATTAAGTAA	GAATCTCTAA	GGCAGTTTGT	GGCCGAGTCT	19107
TAAAGATCT	ACTTCCAGTA	TAGACAGATG	GCATACAGG	TAAACCTTAA	TGAGAGGAGC	ATGAATATGT	GTGTGGGTGT	CTGCTGAGG	CTGCTGAGG	19207
CTATTAAGT	TTATATTGTA	ATATAGCTT	AGCTTTAGCA	GAATAAGTAG	GCCTAACTTA	TGCTGTATTA	AAAGAGAAAC	GAATTTAGAA	ACCTTAACTT	19307
CTCTAGGCA	TTGTTGATGT	TGTACACTTA	TACATAAGTA	ATGCTGGCTG	AAGGAAAGT	ATTAAGCTTA	TTCTCAACCA	CTTGTGCTCT	TTGTTGAGC	19407
TGTTGCTAT	AGAAATCTCT	GTTCACAGGA	ATGCTGGCTG	AAAAAGGAA	ATTAATGAAA	ATGAAATGTA	CAAGTACTTT	CTTGTGACTT	TTTGTGACTT	19507
TGCTGTAGT	CCAGTGTAT	CAATACATTA	TTTTTCTTAA	GAATAAATAC	CAACCCAGG	AAAAATGGTG	AGGTGACTTT	GGTGAATATG	CTGCTGATA	19607
TTATATTAG	AATCTCTTTG	GCTAATATT	GAAGCCCAAA	TAAATGAATC	CAATGTATCT	CTCCCAAGAA	AATATATAA	ATGCACCTTG	GAATCTAGAA	19707
GGCTTTTAG	TCTGCAAAAG	AAACCTTCTT	AATCATAGG	AGCAGAACTG	CCATTTACCA	AATTTGAAAG	TTAAAGTTAC	AAAGCATCAA	TCATCAGAT	19807
TCATTCAGG	GATGGCAATG	GGCAGTAA	CTTTTATGTA	AAGAAACTAA	ACACAAAGTC	ATTAGACTCT	GTAAAGTCT	TACCAAAAT	CATCTGCTGA	19907
CACTATTCT	ATTTCTGTA	AGATGATGAA	TTTGGAGCCA	AATGTTCTTT	TCATGAAGGA	TTTGAAGACT	GTCCATGAAA	ATAAGCCTAA	CACCTTTTAA	20007
CTTCAGACT	CTATTCACTG	ATTAGATTTT	TTTAAATACT	GATGGGCTCT	CTTCTAGAA	GTGCAAGGA	TGGGCTCTCA	TTCTAATTT	TGTAATATAT	20107

128

GTTCATTG	CCAATGAGAA	ATATCAGGTT	ACTAATTTTT	CTTCTATTTT	TCTAG	Val Pro Phe Pro Cys Gly Arg Val Ser Val Ser Gln	20397
Thr Ser Lys Leu Thr Arg Ala Glu Ala Val Phe	Pro Asp Val Asp Tyr Val Asn Ser Thr Glu Ala	Glu Thr Ile Leu Asp	20478				
ACT TCT AAG CTC ACC CGT GCT GAG GCT GCT TTT	CCT GAT GTG GAC TAT GTA AAT TCT ACT GAA GCT	GAA ACC ATT Phe GAT	20559				

195

Asp Ile Thr Gln Ser Thr Gln Ser Phe Asn Asp	Phe Thr Arg Val Val Gly Gly Glu Asp Ala Lys	Pro Gly Gln Phe Pro	20657
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196

197			20757
198			20857
199			20957
200			21057
201			21157
202			21257
203			21357
204			21457

Figure 8D

ATTCTAGCCT	GAGTGACAGA	GTAAAGCCCT	ATCTCAAAAA	ACAGAAAAAG	AAAAACACTG	GCCCAAAAGG	AATGAACCTG	TTACAGAAAG	CGGGGTCAA	211
AAACCAAAAT	AATGACACTG	TACCTAGTCC	TCCTCGGGTG	CTTCACAGAC	ATTCTCCCAA	CCCTAGTCTG	CAAAACAACCT	ACATATGTAG	AATTACCTAT	212
GCACATTTT	CATTAAACAA	CCAGAGATCC	TCCTTTGAGC	CTTCTCTGGC	TGTATACCTA	CCCTACAGCT	GAAGCCCTAA	AGATTTCCTG	TGTAGAGAAG	213
AATAACCCAC	CTCTTTGGCC	CCCTCCCCCA	GGCAGGAAGC	CAGCATGTGC	CTTATATATA	GTCTGTGCTG	CCAACTAGGC	ACCACTAGCC	ACATATGCTT	214
ATTAAATTT	AAATTAAGCA	CAATTAAGAG	GAATAAAAAA	TTCAATTCTG	CAATTCACAC	TGCCAAATTT	TAAGCAAGTA	ACAAACCAT	GTGGCTAGTA	215
ACTACTGTAT	TGGAGAGTGC	AAGCCGAGAT	AGAACTACTC	ATTACTCGAC	AAATTTCTAT	TGGATAGCAC	TTATAATAGT	TTAGTGTAA	TTAAACCTCC	216
CTAGTGTCCA	CAGCTCATAT	TAGTAGATGA	TTTACTGGAT	TTCTCTACTG	AGGTTAGAAAT	CTCTGCCATT	AGAGACTGAT	AATTTTAAAG	TTTCAACTTC	217
TCAAACTGGT	GACAATTTAA	GCAGAAATCA	GGTAAATGCT	TCAGTTTAA	CAGCATTTGA	ATTCTTTGGG	ACTAGCTGTG	TATCTATCCA	GGATTCTCTG	218
GAATCGCTGC	CATTTTTCAA	CAATATGGAT	GTAAAGGTAT	ACACATATAC	TCGGGGATGC	GGAGGTAGAT	ATAATTGCAC	AAGCATTTGT	TGAGATTTGA	219
TCAGAGAGTG	GCAGAAATCA	ACAATCAAGG	TTTCCCTTT	CTTTTACTCT	CTGTTTTTAA	AAAGCAATAA	TTTGTCTGGC	TATCTATCTG	GAGAAATGTA	220
TGGGACATGC	TATGTTCTCT	TTTACCTCTC	CTGTTTCTCT	TTAATGTGAC	CCCTATGAGGA	CTGCTTCTCT	TACCTTACCAT	ACACCTCTTC	TTACTCATCA	221
CATATCTTTA	CTCTTCTTCA	CAJCTCTGTA	ATATGTACCT	CTTTTATGAA	CTCTTCTGCG	CAAACTCTCT	CTTAATGCAAT	CGACTGTGAT	TATCCCTCAT	222
ATGTATTTAA	TATCCATGTA	TCTATCTCTT	CTAATTTTGT	CATTTTGTGT	TCTCATGTAT	TTTCAATTCAT	TATGTGTCCA	ACTCTCATAT	ATAACATGGT	223
TACAACAAAA	GATCTACTTT	TATGACAAAT	ATCTTCTGTT	GGTTTGTGGG	ACATAGAACA	GTGCACAGTA	TAGGGGATTC	AAGAATCCCA	GAGATATATAT	224
TAGCTAAGAA	GATAACTTCC	GTTTTAAAAA	TGCTCAAGATT	CAGGAGATCA	AAACCATCTC	GCTTAACATA	GTGAACACCC	GTCTCTTCCA	AAAAATCAAA	225
AAATTAGCCC	GGCCTGGTGG	CCAGGCCCTA	GTGCTCCAGC	TACACGGGAG	GCTGAGGCGA	GAGAATCGCG	TGAACCGGGG	AGGCCGAGCT	GGCAGTGAGC	226
CGAGATCCCG	CCACTGCACT	CGAGCTGGG	CGACAGAGCG	AGACTCGCTG	TCAAAAAAAA	AAAAAAAAAA	AAAGTCCAAAT	ATTTTAAAAA	AAAAAAAAAA	227
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AAGGCTCAAT	TATGCTAGAT	CATTTCGGTT	TCCTACCCAC	CCCTTTTAAA	CAGAGATGTT	GGCAATGCAT	TATCAATGCA	GATGTTTCTT	GAAGAGAAAT	229
TTAGTAACTT	AAGCAGACAC	CTTATTTTCT	TTTCAAGCAG	AAAGACTACT	CAGATGTGGT	TGTGTGTTGT	TCGGGAGGGG	AGAAGATATA	AATGATACAT	230
ATATTTTCAA	ATCATTTTCA	GACCTCACTG	CACACTTATA	ATTTTGTATC	CTGTATTCTT	TTTGTCTGTA	AGCTTAGCTA	AGATCATTTG	GAATGTTCAA	231
GATCACTCAT	ACATGCTATG	GCACACATAC	ACATGCACAT	GTTTTCATCT	TGTATGCTAT	CCACATGCAAC	TAAGATTAAT	GATGTGTACA	GATCTCAAAG	232
ACTTTTATTC	TTTTCCAAAG	CTTAAAGGAT	GAGCTACTTT	CCAGAAATAGT	TGTGAAGAGC	CCCTGCATAC	TTCTGCATAT	TTTCTCTCAC	ACACCTTCCA	233
TCAGTGTCTT	TATGAATGGT	TACTGGTTTT	CAJAAAAATG	AGTATATATA	AGTGTATATA	AGTCAATTTT	AGCAAAATAT	AAACAGGAAA	TGAAAGAAAC	234
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TCATTTCTTA	CCCTTCTCTG	CCCTTCTCTG	CCCTTCTCTG	CCCTTCTCTG	CCCTTCTCTG	CCCTTCTCTG	CCCTTCTCTG	CCCTTCTCTG	CCCTTCTCTG	243
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TCATTCTATT	AGATTAAAAA	AJAAATATC	AJAAATATC	AJAAATATC	AJAAATATC	AJAAATATC	AJAAATATC	AJAAATATC	AJAAATATC	251
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TGTTTCGATTA	GGACACATCT	CAGTGCAGA	CTTTCACCTG	TAACATGCCA	AAJAAACCCCT	AAJAAACCCCT	AAJAAACCCCT	AAJAAACCCCT	AAJAAACCCCT	254
GTCTTAAGAC	TATAGTATAA	TCTTACCTG	AJAGCTACTT	AJAGCTACTT	AJAGCTACTT	AJAGCTACTT	AJAGCTACTT	AJAGCTACTT	AJAGCTACTT	255
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ACCGGTTACG	GTGAGCATTA	AGCTTAGGTA	GTAAATGCA	CTACACAGGA	ACAGAAATGA	ACAGAAATGA	ACAGAAATGA	ACAGAAATGA	ACAGAAATGA	259
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TATATTTTAG	GCCTTTTCTT	TGCGAAGGAT	GTGTTGGTACG	GGGTTGGTACG	GGGTTGGTACG	GGGTTGGTACG	GGGTTGGTACG	GGGTTGGTACG	GGGTTGGTACG	263
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AGCCAGACTC	ATGCTTCTAT	ATGAGACAGC	GACGAGCATG	GACGAGCATG	GACGAGCATG	GACGAGCATG	GACGAGCATG	GACGAGCATG	GACGAGCATG	267
CTGAAGCTCT	ATGAGACAGC	GACGAGCATG	GACGAGCATG	GACGAGCATG	GACGAGCATG	GACGAGCATG	GACGAGCATG	GACGAGCATG	GACGAGCATG	268
TCCCACTCCC	CTACCACTGC	TGCGCTTAGC	GTACCTTAGC	GTACCTTAGC	GTACCTTAGC	GTACCTTAGC	GTACCTTAGC	GTACCTTAGC	GTACCTTAGC	269
CCCTCTACTC	CTACTACTAG	GTACCTTAGC	GTACCTTAGC	GTACCTTAGC	GTACCTTAGC	GTACCTTAGC	GTACCTTAGC	GTACCTTAGC	GTACCTTAGC	270
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CGTTTTTGT	TTATGACCA	AAACACTTAA	TCATCTTCTG	TCATCTTCTG	TCATCTTCTG	TCATCTTCTG	TCATCTTCTG	TCATCTTCTG	TCATCTTCTG	295
ATTCTGTAA	CCAGCACACA	TATTTATTTT	TTTCTAGATC	AAATGTATTA	TGCAGTAAGA	GTCTTAATTT	TGTTTTTACA	Val Val Leu Asn Gly	3005	
Lys Val Asp	Ala Phe Cys	Gly Gly Ser Ile Val	Asn Glu Lys	Tep Ile Val	Thr Ala Ala His Cys	Val Glu Thr	Gly Val			3014
AAA GTT GAT	GCA TTC	TGT GGA GGC	TCT ATC GTT	AAT GAA AAA	TGG ATT GTA ACT	GCT GCC CAC TGT	OTT GAA ACT			
Lys Ile Thr	Val Val Val	Gly G G	GTAAAT	ACACAGAAAG	AATAATAATC	TGCAGCACCA	CTAGCTCTTT	AATATGATG	GTACACCATTA	TTTACTTAAG
AA ATT ACA	GTG GTC	GCA G								

Figure 8E

GCTAATAAA ATTGTTGTTG AATAAATTGG GCTAAAGGCA GAAGGGTCAT AATTTCAGAA CCCACGTCGC ACCGTCCTCC AAGCATCCAT AGTCTCTTTG 30329
 ATATACCCCT ATTATCACTC ATTTCAGTGA GGTACAATTA GTTCTTGATG TAGCCATTTC CATACCAGAA GGCCTTCCCA AAAATCAGTG TCAATGTCACC 30429
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 AGGATACCTG AAATTGGA AATCTAGGAT AATTCAATGAC TAGTGGATTG ATTATCACCA ATGAAAGGCT TATAACAGCA GAACCATCCTC 30629
 TATGATAGTC CTGAATGGCT TTTTGGTCTG AAAAAATATG ATTGGCTCTC ATTACATTTA ACCAAAATTA TCACAATATA AGAATGAGAT CTTTAACATT 30729

GCAATTAGG TCACTGGTCC CAAGTAGTCA CTAGAAAAAT CTGTGTATGT GAAATACTGT TTGTGACTTA AAATGAAATT TATTTTTAAT AG GT GAA 30826
 His Asn Ile Glu Glu Thr Glu His Thr Glu Gln Lys Arg Asn Val Ile Arg Ile Ile Pro His His Asn Tyr Asn Ala Ala
 CAT AAT ATT GAG GAG ACA GAA CAT ACA GAG CAA AAG CGA AAT GTG ATT CGA ATT ATT CCT CAC CAC AAC TAC AAT GCA GCT 30907
 Ile Asn Lys Tyr Asn His Asp Ile Ala Leu Leu Glu Leu Asp Glu Pro Leu Val Leu Asn Ser Tyr Val Thr Pro Ile Cys
 ATT AAT AAG TAC AAC CAT GAC ATT GCC CTT CTG GAA CTG GAC GAA CCC TTA GTG CTA AAC AGC TAC GTT ACA CCT ATT TGC 30988
 Ile Ala Asp Lys Glu Tyr Thr Asn Ile Phe Leu Lys Phe Gly Ser Gly Tyr Val Ser Gly Trp Gly Arg Val Phe His Lys
 ATT GCT GAC AAG GAA TAC ACG AAC ATC TTC CTC AAA TTT GGA TCT GGC TAT GTA AGT GGC TGG GGA AGA GTT TTC CAC AAA 31069
 Gly Arg Ser Ala Leu Val Leu Gln Tyr Leu Arg Val Pro Leu Val Asp Arg Ala Thr Cys Leu Arg Ser Thr Lys Phe Thr
 GGG AGA TCA GCT TTA GTT CTT CAG TAC CTT AGA GTT CCA CTT GTT GAC CGA GCC ACA TGT CTT CGA TCT ACA AAG TTC ACC 31150
 Ile Tyr Asn Asn Met Phe Cys Ala Gly Phe His Glu Gly Gly Arg Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro His Val
 ATC TAT AAC AAC ATG TTT TGT TGT GGT GGC TTC CAT GAA GGA GGT AGA GAT TCA TGT CAA GGA GAT AGT GGG GGA CCC CAT GTT 31231
 Thr Glu Val Glu Gly Thr Ser Phe Leu Thr Gly Ile Ile Ser Trp Gly Glu Glu Cys Ala Met Lys Gly Lys Tyr Gly Ile
 ACT GAA GTG GAA GGG ACC AGT TTC TTA ACT GGA ATT ATT ACC TGG GGT GAA GAG TGT GCA ATG AAA GGC AAA TAT GGA ATA 31312
 Tyr Thr Lys Val Ser Arg Tyr Val Asn Trp Ile Lys Glu Lys Thr Lys Leu Thr STOP
 TAT ACC AAG GTA TCC CGG TAT GTC AAC TGG ATT AAG GAA AAA ACA AAG CTC ACT TAA TGAAAGATGG ATTTCCAGGG TTAATTCATT 31399

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 AATGCTCTG GAATCTTAC

Figure 9A

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901 tggacatgtg ccaactcctc acatctcctc agggaggggg ccgggaacct ctcccagccc
961 cctatcaaca ccaactgtcg gagccctgcc caccctaccc ccagcagaac ttcaagcagg
1021 agtaccatga cccctgtac gaacaggctg gccagcccgc ttcaagccag ggtgggggtca
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1141 acgactcaga tgtccctgga tgtgcatcaa tgtacctcca cccagagggc ttctctggac
1201 cctctccagg tgatggagt atgggttatg gctatgaaaa atcccttcga ccattcccag
1261 atgatgtctg cattgtccct aaaaaatttg aaggagacat caagcaggaa gggattggag
1321 ctttcgggga ggggccacc taccagcgcc ggggtgcctt acaactgtgg cagtttctgg
1381 tggccctgct ggatgaccca acaaatgtc atttcattgc ttggacaggc cggggaatgg
1441 agtttaaaact aattgaacct gaagaggttg ccaggctctg gggtatccag aagaaccggc
1501 cagccatgaa ttatgacaag ctgagccgct cgctgcgata ctattatgag aaaggcatca
1561 tgcagaaggt ggctggcgaa cgctacgtgt acaagtttgt gtgcgagccg gaggccctgt
1621 tctctctggc cttcccagat aatcaacgtc cagctctgaa ggctgagttt gaccggccag
1681 tcagtgagga ggacacagtc cctttgtccc acttgatga gagtctgcc tacctcccag
1741 aactcactgg ccccgctccg ccttcggcc acagaggtgg atattcttac taggcaccag
1801 tggcttcccc ttgacatggt ggggttgctc agtgtatata tcaactgatt tggatttgg
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2221 tggcttctgc cctgaacagg ggggtcctgt gttcttggtg ctgtgctctg ggaggcagga
2281 gcatgtggg ggcagctggg ggggggtgtg gaagtagaga tggctctctg ccctaggcct
2341 acccaggcct aattccacct ttgcctctta tgccagacct taataaagcc tctgcttctc
2401 cccggaattc

```


Figure 9B

MTKSSNHNCLLRPENKPLWGPGAQAASLRPSPATLVVSSPGHA
EHPPAAPAQTPGPQVSASARGPGPVAGGSGRMERRMKGGYLDQRVPYTFCSKSPGNGS
LGEALMVPQGKLMDPGSLPPSDSEDLFQDLSHFQETWLAEQVPDSDEQFVPDFHSEN
LAFHSPTTRIKKEQSPRTDPALSCSRKPPLPYHHGEQCLYSRQIAIKSPAPGAPGQS
PLQPFSRAEQQQLLRASSSSQSHPGHGYLGEHSSVFQQPVDMCHSFTSPQGGGREPL
PAPYQHQLSEPCPPYPQONFKQEYHDPLYEQAGQPASSQGGVSGHRYPGAGVVIKQER
TDFAYDSVPGCASMYLHPEGFSGPSPGDGVMGYGYEKSRLRPFDDVCIVPKKFEGDI
KQEGIGAFREGPPYQRRGALQLWQFLVALLDDPTNAHFIAWTGRGMEFKLIEPEEVAR
LWGIQKNRPAMNYDKLSRSLRYYYEKGIMQKVAGERYVYKFVCEPEALFSLAFPDNQR
PALKAEFDRPVSEEDTVPLSHLDESPAYLPELTGPAPPFGHRGGYSY

Figure 10 (A)

```

1  gaattccagg ttggaggggc ggcaacctcc tgccagcctt caggccactc tcctgtgcct
61  gccagaagag acagagcttg aggagagctt gaggagagca ggaaagggtg aacattgctg
121 ctgctgctca ctgagttcca caggtgggag gaacagcagg gcttagagtg ggggtcattg
181 tgcagatggg aaaacaaaag cccagagagg ggaagaaatg cctaggagct accgagggca
241 ggcgacctca accacagccc agtgctggag ctgtgagtgg atgtagagca gcggaatatc
301 cattcagcca gctcagggga aggacagggg ccttgaagcc aggggatgga gctgcaggga
361 agggagctca gagagaaggg gaggggagtc tgagctcagt ttcccgtgc ctgaaaggag
421 ggtggtacct actcccttca cagggttaact gaatgagaga ctgcctggag gaaagctctt
481 caagtgtggc ccaccccacc ccagtgcacac cagcccctga cacgggggag ggagggcagc
541 atcaggaggg gctttctggg cacacccagt acccgtctct gagctttcct tgaactgttg
601 cattttaatc ctcacagcag ctcaacaagg tacataccgt caccatcccc attttacaga
661 tagggaaatt gaggtcggga gcgggttaaac aactcacctg aggcctcaca gccagtaagt
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841 cattcactct gcaagtatct acggcacgta cgccagctcc caagcaggtt tgcgggttgc
901 acagcggagc gatgcaatct gatttaggct tttaaaggat tgcaatcaag tgggaccacac
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1381 tggcagcctg acggttgtgt ctgcctcagt catgctccat ttttccatcg ggaccatcaa
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1681 gactgtctga ctcacgccac cccctccacc ttggacacag gacgtgtgg tctctgagcc
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2761 ttttacagat gaggaagatg gggagagaga accctgctcc ctctgaacc ctggcctagt
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2941 gaggcctctc aacctttgac ttctgtcccc tcccctcacc ccaccgacc ttgatctctg
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3061 aagtgttggg ggtggccagt ttcttataga acgcctctaa aagacctgca gcaatagcag
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3361 aatctggcct cagagccttt gattttagcc cttctggctt cagctttgta cacagagatg
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```


Figure 10 (B)

```

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3601 ggctcaattt ttctatctat aaaatagggc taataatttg caccttatag ggtaagcttt
3661 gaggacagat tagatgatac ggtgcctgta aaacaccagg tgtagtaag tgtggcaatg
3721 atgggtgacgc tgaggctgtg tttgcttagc atagggttag gcagctggca ggcagtaaac
3781 agttggataa tttaatggaa aatttgccaa actcagatgc tgttctactgc tgagcaggag
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6901 tcttagggtc attgcagatg aaagtgtgtg tctccagagc ctgggtgcag gacctagatg
6961 taggattctg gttctgctac ttctcagtg acattgaata gctgacctaa tctctctggc
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Figure 10 (C)

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7201 cacaggctgg ttttaataatc cctaggcact ttcacgtggt gtcaatccct gatcactggg
7261 agtcatcatg tgccttgact cgggcctggc ccccccactc ctgtcttgca ggacaatgcc
7321 gtctttctgtc tctgtggggca tcctcctgct ggcaggcctg tgctgcctgg tccctgtctc
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7561 tacagccttt gcaatgctct ccttggggac caaggctgac actcacgatg aaatcctgga
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Figure 10 (D)

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10801 ttcccatctt agtgtgggtg gaggacacag gagtaagtgg cagaaataat cagaaaagaa
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11401 taagttgttt caaaggaatt tctgactcct tctgactcct tctgaattaa
11461 tgaatgattt cagctaaagt gacacttatt ttggaaaact aaaggcgacc aatgaacaac
11521 ctgcagttcc atgaatggct gcattatctt ggggtctggg cactgtgaag gtcactgcca
11581 ggggtccgtg cctcaaggag cttcaagccg tgtactagaa aggagagagc cctggaggca
11641 gacgtggagt gacgatgctc ttccctgttc tgagttgtgg gtgcacctga gcagggggag
11701 aggcgcttgt caggaagatg gacagagggg agccagcccc atcagccaaa gccttgagga
11761 ggagcaaggc ctatgtgaca gggagggaga ggatgtgcag ggccagggcc gtccaggggg
11821 agtgagcgct tcctgggagg tgtccacgtg agccttgctc gaggcctggg atcagcctta
11881 caacgtgtct ctgcttctct cccctccagg ccgtgcataa ggctgtgctg accatcgacg
11941 agaaagggac tgaagctgct gggggccatgt ttttagaggc cataccatg tctatcccc
12001 ccgagggtcaa gttcaacaaa ccctttgtct tcttaatgat tgaacaaaat accaagtctc
12061 ccctcttcat gggaaaagtg gtgaatccca cccaaaaata actgcctctc gctcctcaac
12121 ccctcccctc catccctggc cccctccctg gatgacatta aagaagggtt gagctgggtcc
12181 ctgcctgcat gtgatctgta aatccctggg atgttttctc tg
```

Figure 11

1	caccagcatc	atctcctcca	attcatccag	ctactctgcc	catgaagata	atagttttca
61	ggcggattgc	ctcagatcac	actatctcca	cttgcccagc	cctgtggaag	attagcggcc
121	atgtattcca	atgtgatagg	aactgtaacc	tctggaaaaa	ggaaggttta	tcttttgccc
181	ttgctgctca	ttggcttctg	ggactgcgtg	acctgtcacg	ggagccctgt	ggacatctgc
241	acagccaagc	cgcgggacat	tcccatgaat	cccatgtgca	tttaccgctc	cccggagaag
301	aaggcaactg	aggatgaggg	ctcagaacag	aagatcccgg	aggccaccaa	ccggcggtgc
361	tgggaactgt	ccaaggccaa	ttcccgtttt	gctaccactt	tctatcagca	cctggcagat
421	tccaagaatg	acaatgataa	cattttcctg	tcacccctga	gtatctccac	ggcttttgct
481	atgaccaagc	tgggtgcctg	taatgacacc	ctccagcaac	tgatggaggt	atttaagttt
541	gacaccatat	ctgagaaaaa	atctgatcag	atccacttct	tctttgccaa	actgaactgc
601	cgactctatc	gaaaagccaa	caaatcctcc	aagttagtat	cagccaatcg	cctttttgga
661	gacaaatccc	ttaccttcaa	tgagacctac	caggacatca	gtgagttggg	atatggagcc
721	aagctccagc	ccctggactt	caaggaaaaa	gcagagcaat	ccagagcggc	catcaacaaa
781	tgggtgtcca	ataagaccga	aggccgaatc	accgatgtca	ttccctcgga	agccatcaat
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1081	gagaagagcc	tggccaagggt	ggagaaggaa	ctcaccaccg	aggtgctgca	ggagtggctg
1141	gatgaattgg	aggagatgat	gctgggtggt	cacatgcccc	gcttcgcgat	tgaggacggc
1201	ttcagtttga	aggagcagct	gcaagacatg	ggccttgctg	atctgttcag	ccctgaaaag
1261	tccaaactcc	caggtattgt	tgcagaaggc	cgagatgacc	tctatgtctc	agatgcattc
1321	cataaggcat	ttcttgaggt	aaatgaagaa	ggcagtgaag	cagctgcaag	taccgctgtt
1381	gtgattgctg	gccgttcgct	aaaccccaac	agggtgactt	tcaaggccaa	caggcccttc
1441	ctgggtttta	taagagaagt	tcctctgaac	actattatct	tcatgggcag	agtagccaac
1501	ccttgtgtta	agtaaaatgt	tcttattctt	tgcacctctt	cctatttttg	gtttgtgaac
1561	agaagtaaaa	ataaatataa	actacttcca	tctcacatt		

Figure 12 A

```
1  ctgcagggggg ggggggggggg ggggggctgtc atggcgggcag gacgggcgaac ttgcagtatc
61  tccacgacccc gccccctacag gtgccagtgcc ctccagaatg tggcagctca caagcctcct
121 gctgttcgtg gccacctggg gaatttcggg cacaccagct cctcttgact cagtgttctc
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241 ggagctccgt cacagcagcc tggagcgggg gtgcatagag gagatctgtg acttcgagga
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901 tgacctgcgg cgctgggaga agtgggagct ggacctggac atcaaggagg tcttcgtcca
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1321 ctccctccac ggcacctggt tcctgggtgg cctgggtgagc tggggtgagg gctgtgggct
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1561 tgctgttctg tccttccatc cctcttttgg gctcttctgg agggaagtaa catttactga
1621 gcacctgttg tatgtcacat gccttatgaa tagaatctta actcctagag caactctgtg
1681 ggggtggggag gagcagatcc aagttttgcy ggggtctaaag ctgtgtgtgt tgagggggat
1741 actctgttta tgaaaaagaa taaaaaacac aaccacgaaa aaaaaaaaaa aaaaaaaaaa
1801 aaaaaaaaaa aaaaaaaccc cccccgcccc cccccccctg cag
```

Figure 12 B

```

1 agtgaatctg ggcgagtaac acaaaacttg agtgtcctta cctgaaaaat agaggttaga
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121 caattggagg tgagggtgga gccagtgcc cagcacctat gcactgggga cccaaaaagg
181 agcatcttct catgatttta tgtatcagaa attgggatgg catgtcattg ggacagcgtc
241 ttttttcttg tatggtggca cataaataca tgtgtcttat aattaatggt attttagatt
301 tgacgaaata tggaaatatta cctgttgtgc tgatcttggg caaactataa tatctctggg
361 caaaaatgtc cccatctgaa aaacagggac aacgttcctc cctcagccag ccactatggg
421 gctaaaatga gaccacatct gtcaagggtt ttgccctcac ctccctccct gctggatggc
481 atccttggtg ggcagagggtg ggcttcgggc agaacaagcc gtgctgagct aggaccagga
541 gtgctagtgc cactgtttgt ctatggagag ggaggcctca gtgctgaggg ccaagcaaat
601 atttgtgggt atggattaac tcgaactcca ggctgtcatg gcggcaggac ggcgaacttg
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3421 ttaggccctt caccaagggt agctccctc cctccaaaac cagactcagt gttctccagc
3481 agcgagcgt cccaccaggt gctgcggatc cgaaaacgtg ccaactcctt cctggaggag
3541 ctccgtcaca gcagcctgga gcgggagtg atagaggaga tctgtgactt cgaggaggcc

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Figure 12 B (continued)

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3601 aaggaaatTTt tccaaaatgt ggatgacaca gtaaggccac catgggtcca gaggatgagg
3661 ctcaggggGcg agctggtaac cagcagggGc ctcgaggagc aggtggggGac tcaatgctga
3721 ggccctctta ggagttgtgg ggggtggctga gtggagcgat taggatgctg gccctatgat
3781 gtcggccagg cacaTgtgac tgcaagaaac agaattcagg aagaagctcc aggaaagagt
3841 gtgggggtgac cctaggtggg gactcccaGc gccacagtgt aggtggttca gtccaccctc
3901 cagccactgc tgagcaccac tgccctcccg tcccacctca caaagagggg acctaaagac
3961 caccctgctt ccacccatgc ctctgtgat cagggtgtgt gtgtgaccga aactcacttc
4021 tgtccacata aaatcgctca ctctgtgcct cacatcaaag ggagaaaatc tgattgttca
4081 ggggggtcGga agacagggGtc tgtgtccctat ttgtctaagg gtcagagtcc tttggagccc
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6961 aaggccgtgg gaaggccctg tcattggcag aaccccagat cgtgagggct ttccttttag
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7081 ttcggccctc cagagcaggg tggggcaggg gagctggtgc ctgtgcaggc tgtggacatt
7141 tgcagtactc cctgtggtca gctaagagca ccactccttc ctgaagcgGg gcctgaagtc

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Figure 12 B (continued)

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7201 cctagtcaga gcctctgggtt caccttctgc aggcaggagg aggggagtc agtcagtgag
7261 gagggctttc gcagttttctc ttacaaactc tcaacatgcc ctcccacctg cactgccttc
7321 ctggaagccc cacagcctcc tatggttccg tgggtccagtc cttcagcttc tgggcgcccc
7381 catcacgggc tgagattttt gctttccagt ctgccaaagtc agttactgtg tccatccatc
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7561 agggccattt tgagcagagt cgggctgacc tttcagccct cagttctcca tggagtatgc
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8761 gacacttact gggttccctt ctctgccagg catgggggag ataggaacca acaagtggga
8821 gtatttgccc tggggactca gactctgcaa gggctcaggac ccaaagacc cggcagccca
8881 gtgggaccac agccaggacg gcccttcaag ataggggctg agggagcca aggggaacat
8941 ccaggcagcc tgggggccac aaagtcttcc tggaaagacac aaggcctgcc aagcctctaa
9001 ggatgagagg agctcgctgg gcgatgttgg tgtggctgag ggtgactgaa acagtatgaa
9061 cagtgcagga acagcatggg caaaggcagg aagacacctt gggacaggct gacactgtaa
9121 aatgggcaaa aatagaaaac gccagaaagg cctaagccta tgcccatag accagggaa
9181 ccaggaaagt gcatatgaaa cccagggtgc cctgactgga ggctgtcagg aggcagcct
9241 gtgatgtcat catccacccc cattccaggt ggtcctgctg gactcaaaga agaagctggc
9301 ctgctgggca gtgctcatcc accctcctg ggtgctgaca gcggcccact gcatggatga
9361 gtccaagaag ctcttgttca ggcttggatg gggctggagc caggcagaag ggggtgcca
9421 gaggcctggg tagggggacc aggcagctgt ttcagggttg ggggacccc cccccaggt
9481 gcttaagcaa gaggttctt gagctccaca gaaggtgttt ggggggaaga ctccctatgt
9541 cccccacctt gccacccat gtaccccag tattttgcag tagggggttc tctggtgcc
9601 tcttcgaatc tgggcacagg tacctgcaca cacatgtttg tgaggggcta cacagacctt
9661 cactctcca ctcccactca tgaggagcag gctgtgtggg cctcagcacc cttgggtgca
9721 gagaccagca aggcctggcc tcagggtgtg gcctcccaca gactgacagg gatggagctg
9781 tacagaggga gccctagcat ctgcccagc cacaagctgc ttcctagca ggctgggggc
9841 tcctatgcat tggccccgat ctatggcaat ttctggagg ggggtctggc tcaactcttt
9901 atgccccaaa gaaggcaag catattgaga aaggccaaat aggtgctctt cccagggaa
9961 tctatgccag tggccccgtg gggcttggct tagaattccc cccggccctg tctcctctgg
10021 catcagctctg gactgagagg accttctctc ttaggtggga gggctctact gccctgggg tctctccagc
10081 cagtgcctgt ttctgggggt cctcctctct ggtctgtgtc tgggggttcc aggggtctcg
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10201 ggtctccctg ctgcccattc ttgacacctg ttggccactc ggctccgcgc cagtgcctgg gacgtgtggg
10261 cagcatccta cccctttgga atagacaggt cttcttcagg ccctctccca ggctgcagg ggcacagcag
10321 cgttgatagg gttccacggc cttcttcagg gccactgggg agaggctccc cgcagccccc tctgactgtg
10381 tgcacagtct ccgggtgaac tatgacctg gcagctggga gaagtgggag ctggacctgg
10441 tgggtggggc tcaggaaaag caccaccaact acaccaaagag caccaccgac aatgacatcg
10501 ccctctgccc tgcaggagag ggtcttcgtc cccgccaccc tctcgagac catagtggcc atctgctcc
10561 acatcaagga cctggcccag cgcgagctca atcaggccgg ccaggagacc ctcgtgacgg
10621 cactgctgca cctggcccag ccagagaaag agggccaagag aaaccgcacc ttcgtcctca
10681 cggacagcgg ccttgagag gattcccgtg gtcccgcaca atgagtgcag cgaggatcat agcaacatgg
10741 gctggggcta ccacagcagc
10801 acttcatcaa gattcccgtg

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Figure 12 B (continued)

10861	tgtctgagaa	catgctgtgt	gcgggcatcc	tcggggaccg	gcaggatgcc	tgcgagggcg
10921	acagtggggg	gcccattggtc	gcctccttcc	acggcacctg	gttcctggtg	ggcctggtga
10981	gctgggggtga	gggctgtggg	ctccttcaca	actacggcgt	ttacaccaa	gtcagccgct
11041	acctcgactg	gatccatggg	cacatcagag	acaaggaagc	cccccagaag	agctggggcac
11101	cttagcgacc	ctccctgcag	ggctgggctt	ttgcatggca	atggatggga	cattaaaggg
11161	acatgtaaca	agcacaccgg	cctgctgttc	tgtccttcca	tccctctttt	gggctcttct
11221	ggaggggaagt	aacatttact	gagcacctgt	tgtatgtcac	atgccttatg	aatagaatct
11281	taactcctag	agcaactctg	tgggggtggg	aggagcagat	ccaagttttg	cggggtctaa
11341	agctgtgtgt	gttgaggggg	atactctgtt	tatgaaaaag	aataaaaaac	acaaccacga
11401	agccactaga	gccttttcca	gggctttggg	aagagcctgt	gcaagccggg	gatgctgaag
11461	gtgaggcttg	accagctttc	cagctagccc	agctatgagg	tagacatgtt	tagctcatat
11521	cacagaggag	gaaactgagg	ggtctgaaag	gtttacatgg	tggagccagg	attcaaactct
11581	aggtctgact	ccaaaaccca	ggtgcttttt	tctgttctcc	actgtcctgg	aggacagctg
11641	tttcgacggt	gctcagtgtg	gaggccacta	ttagctctgt	agggaagcag	ccagagaccc
11701	agaaagtgtt	ggttcagccc	agaat			

Figure 13 (A)

SEQ ID NO:3

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ggcctctc actaactaat cactttccca tcttttgta gatttgaata tatacattct
atgatcattg ctttttctct ttacagggga gaatttcata ttttacctga gcaaattgat
tagaaaatgg aaccactaga ggaatataat gtgttaggaa attacagtca tttctaaggg
cccagccctt gacaaaattg tgaagttaaa ttctccactc tgtccatcag atactatggg
tctccactat ggcaactaac tcactcaatt ttccctcctt agcagcattc catcttcccc
atcttctttg cttctccaac caaaacatca atgtttatta gttctgtata cagtacagga
tctttgggtct actctatcac aaggccagta ccacactcat gaagaaagaa cacaggagta
gctgagaggg taaaactcat caaaaacact actccttttc ctctacccta ttcctcaatc
ttttaccttt tccaaatccc aatccccaaa tcagtttttc tctttcttac tccctctctc
cctttttacc tccatggtcg ttaaaggaga gatggggagc atcattctgt tatacttctg
tacacagtta tacatgtcta tcaaaccag acttgcttcc atagtggaga cttgcttttc
agaacatagg gatgaagtaa ggtgcctgaa aagtttgggg gaaaagtttc tttcagagag
ttaagttatt ttatatatat aatatatata taaaatatat aatatacaat ataaatatat
agtgtgtgtg tgtatgcgtg tgtgtagaca cacacgcata cacacatata atggaagcaa
taagccattc taagagcttg tatggttatg gaggtctgac taggcattgat ttcacgaagg
caagattggc atatcattgt aactaaaaaa gctgacattg acccagacat attgtactct
ttctaaaaat aataataata atgctaacag aaagaagaga accgttcggt tgcaatctac
agctagtaga gactttgagg aagaattcaa cagtgtgtct tcagcagtgt tcagagccaa
gcaagaagtt gaagttgcct agaccagagg acataagtat catgtctcct ttaactagca
taccgccgaag tggagaaggg tgcagcaggc tcaaaggcat aagtcattcc aatcagccaa
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tctatcttga atctt

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SEQ ID NO:76

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tagaaaatgg aaccactaga ggaatataat gtgttaggaa attacagtca tttctaaggg
cccagccctt gacaaaattg tgaagttaaa ttctccactc tgtccatcag atactatggg
tctccactat ggcaactaac tcactcaatt ttccctcctt agcagcattc catcttcccc
atcttctttg cttctccaac caaaacatca atgtttatta gttctgtata cagtacagga
tctttgggtct actctatcac aaggccagta ccacactcat gaagaaagaa cacaggagta
gctgagaggg taaaactcat caaaaacact actccttttc ctctacccta ttcctcaatc
ttttaccttt tccaaatccc aatccccaaa tcagtttttc tctttcttac tccctctctc
cctttttacc tccatggtcg ttaaaggaga gatggggagc atcattctgt tatacttctg
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agaacatagg gatgaagtaa ggtgcctgaa aagtttgggg gaaaagtttc tttcagagag
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agtgtgtgtg tgtatgcgtg tgtgtagaca cacacgcata cacacatata atggaagcaa
taagccattc taagagcttg tatggttatg gaggtctgac taggcattgat ttcacgaagg
caagattggc atatcattgt aactaaaaaa gctgacattg acccagacat attgtactct
ttctaaaaat aataataata atgctaacag aaagaagaga accgttcggt tgcaatctac
agctagtaga gactttgagg aagaattcaa cagtgtgtct tcagcagtgt tcagagccaa
gcaagaagtt gaagttgcct agaccagagg acataagtat catgtctcct ttaactagca
taccgccgaag tggagaaggg tgcagcaggc tcaaaggcat aagtcattcc aatcagccaa
ctaagttgtc cttttctggg ttctgtttca ccatggaaca ttttgattat agttaatcct
tctatcttga atctt

```

Figure 13 (B)

SEQ ID NO:77

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tagaaaatgg	aaccactaga	ggaatataat	gtgttaggaa	attacagtca	tttctaaggg
cccagccctt	gacaaaattg	tgaagttaaa	ttctccactc	tgtccatcag	atactatggg
tctccactat	ggcaactaac	tcactcaaat	ttccctcctt	agcagcattc	catcttcccc
atcttctttg	cttctccaac	caaaacatca	atgtttatta	gttctgtata	cagtacagga
tctttggtct	actctatcac	aaggccagta	ccacactcat	gaagaaagaa	cacaggagta
gctgagagge	taaaactcat	caaaaacact	actccttttc	ctctacccta	ttcctcaatc
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tacacagtta	tacatgtcta	tcaaaccag	acttgcttcc	atagtggaga	cttgcttttc
agaacatagg	gatgaagtaa	ggtgcctgaa	aagtttgggg	gaaaagtttc	tttcagagag
ttaagttatt	ttatatatat	aatatatata	taaaatatat	aatatataat	ataaatatat
agtgtgtgtg	tgtatgctg	tgtgtagaca	cacacgcata	cacacatata	atggaagcaa
taagccattc	taagagcttg	tatggttatg	gaggtctgac	taggcattgat	ttcacgaagg
caagattggc	atatcattgt	aactaaaaaa	gctgacattg	accagacat	attgtactct
ttctaaaaat	aataataata	atgctaacag	aaagaagaga	accgttcggt	tgcaatctac
agctagtaga	gactttgagg	aagaattcaa	cagtgtgtct	tcagcagtg	tcagagccaa
gcaagaagtt	gaagttgcct	agaccagagg	acataagtat	catgtctcct	ttactagcaa
taccccgaag	tggagaagg	tgcagcaggc	tcaaaggcat	aagtcattcc	aatcagccaa
ctaagttgtc	cttttctggt	ttcgtgttca	ccatggaaca	ttttgattat	agttaatcct
tctatcttga	atctt				

SEQ ID NO:78

ggcctctc	actaactaat	cactttccca	tcttttggtta	gatttgaata	tatacattct
atgatcattg	ctttttctct	ttacagggga	gaatttcata	ttttacctga	gcaaattgat
tagaaaatgg	aaccactaga	ggaatataat	gtgttaggaa	attacagtca	tttctaaggg
cccagccctt	gacaaaattg	tgaagttaaa	ttctccactc	tgtccatcag	atactatggg
tctccactat	ggcaactaac	tcactcaatt	ttccctcctt	agcagcattc	catcttcccc
atcttctttg	cttctccaac	caaaacatca	atgtttatta	gttctgtata	cagtacagga
tctttggtct	actctatcac	aaggccagta	ccacactcat	gaagaaagaa	cacaggagta
gctgagagge	taaaactcat	caaaaacact	actccttttc	ctctacccta	ttcctcaatc
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ccttttacct	tccatggtcg	ttaaaggaga	gatggggagc	atcattctgt	tatacttctg
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agtgtgtgtg	tgtatgctg	tgtgtagaca	cacacgcata	cacacatata	atggaagcaa
taagccattc	taagagcttg	tatggttatg	gaggtctgac	taggcattgat	ttcacgaagg
caagattggc	atatcattgt	aactaaaaaa	gctgacattg	accagacat	attgtactct
ttctaaaaat	aataataata	atgctaacag	aaagaagaga	accgttcggt	tgcaatctac
agctagtaga	gactttgagg	aagaattcaa	cagtgtgtct	tcagcagtg	tcagagccaa
gcaagaagtt	gaagttgcct	agaccagagg	acataagtat	catgtctcct	ttactagcaa
taccccgaag	tggagaagg	tgcagcaggc	tcaaaggcat	aagtcattcc	aatcagccaa
ctaagttgtc	cttttctggt	ttcgtgttca	ccatggaaca	ttttgattat	agttaatcct
tctatcttga	atctt				

Figure 13 (C)

SEQ ID NO:79

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ggcctctc actaactaat cactttccca tcttttggtta gatttgaata tatacattct
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tagaaaatgg aaccactaga ggaatataat gtgttaggaa attacagtca tttctaaggg
cccagccctt gacaaaattg tgaagttaaa ttctccactc tgtccatcag atactatggg
tctccactat ggcaactaac tcaactcaatt ttccctcctt agcagcattc catcttcccg
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tcttttggtct actctatcac aaggccagta ccacactcat gaagaaagaa cacaggagta
gctgagaggc taaaactcat caaaaacact actccttttc ctctacccta ttcctcaatc
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ttaagttatt ttatatatat aatatatata taaaatatat aatatacaat ataaatatat
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taagccattc taagagcttg tatggttatg gaggtctgac taggcatgat ttcacgaagg
caagattggc atatcattgt aactaaaaaa gctgacattg acccagacat attgtactct
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agctagtaga gactttgagg aagaattcaa cagtgtgtct tcagcagtggt tcagagccaa
gcaagaagtt gaagttgcct agaccagagg acataagtat gtactctcct ttaactagca
taccgccgaag tggagaagggt tgcagcaggc tcaaaggcat aagtcattcc aatcagccaa
ctaagttgtc cttttctggg ttcgtgttca ccatggaaca ttttgattat agttaatcct
tctatcttga atctt

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SEQ ID NO:80

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tagaaaatgg aaccactaga ggaatataat gtgttaggaa attacagtca tttctaaggg
cccagccctt gacaaaattg tgaagttaaa ttctccactc tgtccatcag atactatggg
tctccactat ggcaactaac tcaactcaatt ttccctcctt agcagcattc catcttcccg
atcttctttt cttctccaac caaaacatca atgtttatta gttctgtata cagtacagga
tctttgggtct actctatcac aaggccagta ccacactcat gaagaaagaa cacaggagta
gctgagaggc taaaactcat caaaaacact actccttttc ctctacccta ttcctcaatc
ttttaccttt tccaaatccc aatccccaaa tcagtttttc tctttcttac tccctctctc
ccttttacct tccatggctg ttaaaggaga gatggggagc atcattctgt tatacttctg
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agaacatagg gatgaagtaa ggtgcctgaa aagtttgggg gaaaagtttc tttcagagag
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agtgtgtgtg tgtatgcgtg tgtgtagaca cacacgcata cacacatata atggaagcaa
taagccattc taagagcttg tatggttatg gaggtctgac taggcatgat ttcacgaagg
caagattggc atatcattgt aactaaaaaa gctgacattg acccagacat attgtactct
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agctagtaga gactttgagg aagaattcaa cagtgtgtct tcagcagtggt tcagagccaa
gcaagaagtt gaagttgcct agaccagagg acataagtat catgtctcct ttaactagca
taccgccgaag tggagaagggt tgcagcaggc tcaaaggcat aagtcattcc aatcagccaa
ctaagttgtc cttttctggg ttcgtgttca ccatggaaca ttttgattat agttaatcct
tctatcttga atctt

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Figure 13 (D)

SEQ ID NO:81

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tagaaaatgg aaccactaga ggaatataat gtgtaggaa attacagtca tttctaaggg
cccagccctt gacaaaattg tgaagttaaa ttctccactc tgtccatcag atactatggg
tctccactat ggcaactaac tcaactcaatt ttccctcctt agcagcattc catcttcccg
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tcttttggtc actctatcac aaggccagta ccacactcat gaagaaagaa cacaggagta
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agctagtaga gactttgagg aagaattcaa cagtgtgtct tcagcagtggt tcagagccaa
gcaagaagtt gaagttgcct agaccagagg acataagtat catgtctcct ttaactagca
taccocgaag tggagaaggg tgcagcaggc tcaaaggcat aagtcattcc aatcagccaa
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tctatcttga atctt
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SEQ ID NO:82

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taagccattc taagagcttg tatggttatg gaggtctgac taggcatgat ttcacgaagg
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taccocgaag tggagaaggg tgcagcaggc tcaaaggcat aagtcattcc aatcagccaa
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tctatcttga atctt
```

Figure 13 (E)

SEQ ID NO:83

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gctgagaggc	taaaactcat	caaaaacact	actccttttc	ctctacccta	ttcctcaatc
ttttaccttt	tccaaatccc	aatcccaaaa	tcagtttttc	tctttcttac	tccctctctc
cctttttaccc	tccatgggtcg	ttaaaggaga	gatggggagc	atcattctgt	tatacttctg
tacacagtta	tacatgtcta	tcaaaccacg	acttgcttcc	atagtggaga	cttgcttttc
agaacatagg	gatgaagtaa	ggtgcctgaa	aagtttgagg	gaaaagtttc	tttcagagag
ttaagttatt	ttatatatat	aatatatata	taaaatatat	aatatacaat	ataaatatat
agtgtgtgtg	tgtatgcgtg	tgtgtagaca	cacacgcata	cacacatata	atggaagcaa
taagccattc	taagagcttg	tatggttatg	gaggtctgac	taggcatgat	ttcacgaagg
caagattggc	atatcattgt	aactaaaaaa	gctgacattg	accagacat	attgtactct
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agctagtaga	gactttgagg	aagaattcaa	cagtgtgtct	tcagcagtggt	tcagagccaa
gcaagaagtt	gaagttgcct	agaccagagg	acataagtat	catgtctcct	tttaactagca
taccccgaa	tggagaaggg	tgcagcaggc	tcaaaggcat	aagtcattcc	aatcagccaa
ctaagttgtc	cttttctggg	ttcgtgttca	ccatggaaca	ttttgattat	agttaatcct
tctatcttga	atctt				

Figure 14

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GAATTCGTGA AGCATTTCCT ATGTGTACCT GCCCCTGGGC AAGGTGGGCC TGACTTGTTA -1403
GAGTGTTAGA GTTTTACCCT GTTCCTCTAG GAGGGCCTGG TACCACCACA GCCCAGCATG -1343
GTGTGGTGCC TCAGCAGGAG GCATCTGGTT ACAATCAACA CAAGCTGTTT CAGCCAATTT -1283
AAAGAACTT CAGGAGGAAT AGGGTTTTAG GAGGGCATGG GGACCCTCCT GCACCCGAAG -1223
CCAGGATGTG CCACCAATCA TAAGGAGGCA GGGGCCCTCT TCCGCTGCTC CCTGGGACTC -1163
TCTAGGTGTC CGTGGCCTCA GCCCCCTCT GCACACCTGC ATCTTCCTTC TCATCAGCTT -1103
CCTCTGCTTT AAGCGTAAAC ATGGATGCCC AGGACCTGGC CTCATCTTTC CGAGTCTGGT -1043
ACTTATGGTG TACTGACAGT GTGAGACCTT ACTCCTCTGA TCAATCCCTT GGGTTGGTGA -983
CTTCCCTGTG CAATCAATGG AAGCCAGCGA GGCAGGGTCA CATGCCCTCT TTAGAGGTGC -923
AGACTTGGAG AAGGAACGTG GGCAAGTCTT CCCAGGAACA GGTAGGGCAG GGAGGAAAGG -863
GGGGCATCTC TGGTGACGCC CGGTTCCGAG CAGGAAGACG CTTAATAAAT GCTGATAGAC -803
TGCAGGACAC AGGCAAAGGT GCTGAGCTGG ACCCTTTATT TCTGCCCTTC TCCCTTCTGG -743
CACCCCGGCC AGGAAATTGC TGCAGCCTTT CTGGAATCCC GTTCATTTT CTTACTGGTC -683
CACAAAAGGG GCCAAATGGA AGCAGCAAGA CCTGAGTTCA AATTAATCT GCCAACTACC -623
AGCTCAGTGA ATCTGGGCGA GTAACACAAA ACTTGAGTGT CCTTACCTGA AAAATAGAGG -563
TTAGAGGGAT GCTATGTGCC ATTGTGTGTG TGTGTTGGGG GTGGGGATTG GGGGTGATTT -503
GTGAGCAATT GGAGGTGAGG GTGGAGCCCA GTGCCCAGCA CCTATGCACT GGGGACCCAA -443
AAAGGAGCAT CTTCTCATGA TTTTATGTAT CAGAAATTGG GATGGCATGT CATTGGGACA -383
CGGCTTTTTT TCTGTATGCG TGGCACATAA ATACATGTGT CTTATAATTA ATGGTATTTT -323
AGATTGACG AAATATGGA TATTACCTGT TGTGCTGATC TTGGGCAAAC TATAATATCT -263
CTGGGCAAAA ATGTCCCAT CTGAAAACA GGGACAACGT TCCTCCCTCA GCCAGCCACT -203
ATGGGGCTAA AATGAGACCA CATCTGTCAA GGGTTTTGCC CTCACCTCCC TCCCTGCTGG -143
ATGGCATCCT TGGTAGGCAG AGGTGGGCTT CGGGCAGAAC AAGCCGTGCT GAGCTAGGAC -83
CAGGAGTGCT AGTGCCACTG TTTGTCTATG GAGAGGGAGG CCTCAGTCT GAGGGCCAG -23
CAAATATTTG TGGTTATGGA TTAACGAA CTCCAGGCTG TCATGGCGGC AGGACGGCGA +38
ACTTGCACTC TCTCCACGAC CCGCCCTGT GAGTCCCCCT CCAGGCAGGT CTATGAGGGG +98
TGTGGAGGGA GGGCTGCCCC CGGGAGAAGA -----
-----1350 bp-----
----- AAGAGTCCT CCTCAGACG GTGCCAGTGC CTCCAGATG TGG CAG CTC +1527

```

MET TRP GLN LEU -39

Figure 15

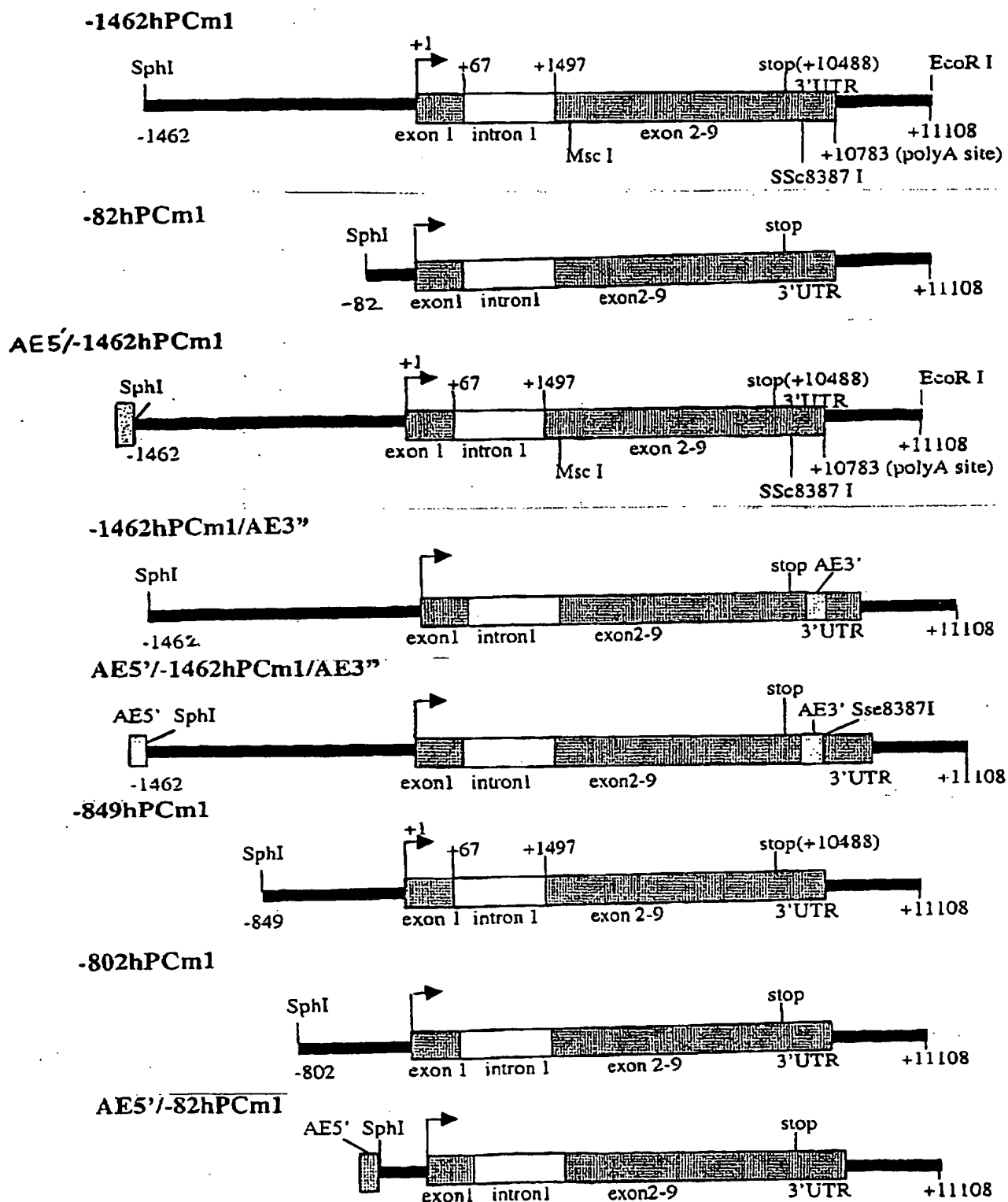


Figure 16

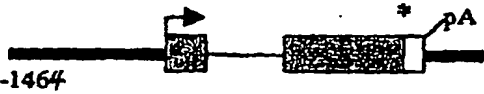
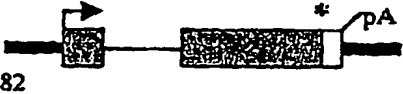
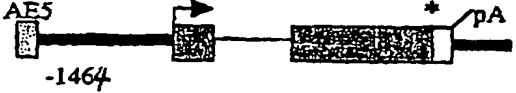
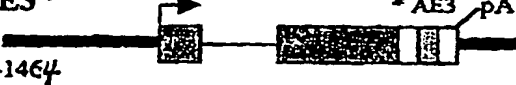
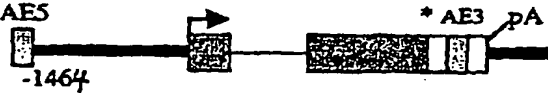
hPC Minigene Constructs	Expression Activity (%±SD)
 <p>-146/hPCm1</p>	100
 <p>-82hPCm1</p>	98.7±11.8
 <p>AE5'/-146/hPCm1</p>	101.9±12.5
 <p>-146/hPCm1/AE3''</p>	70.1±7.5
 <p>AE5'/-146/hPCm1/AE3''</p>	74.0±3.8

Figure 17A

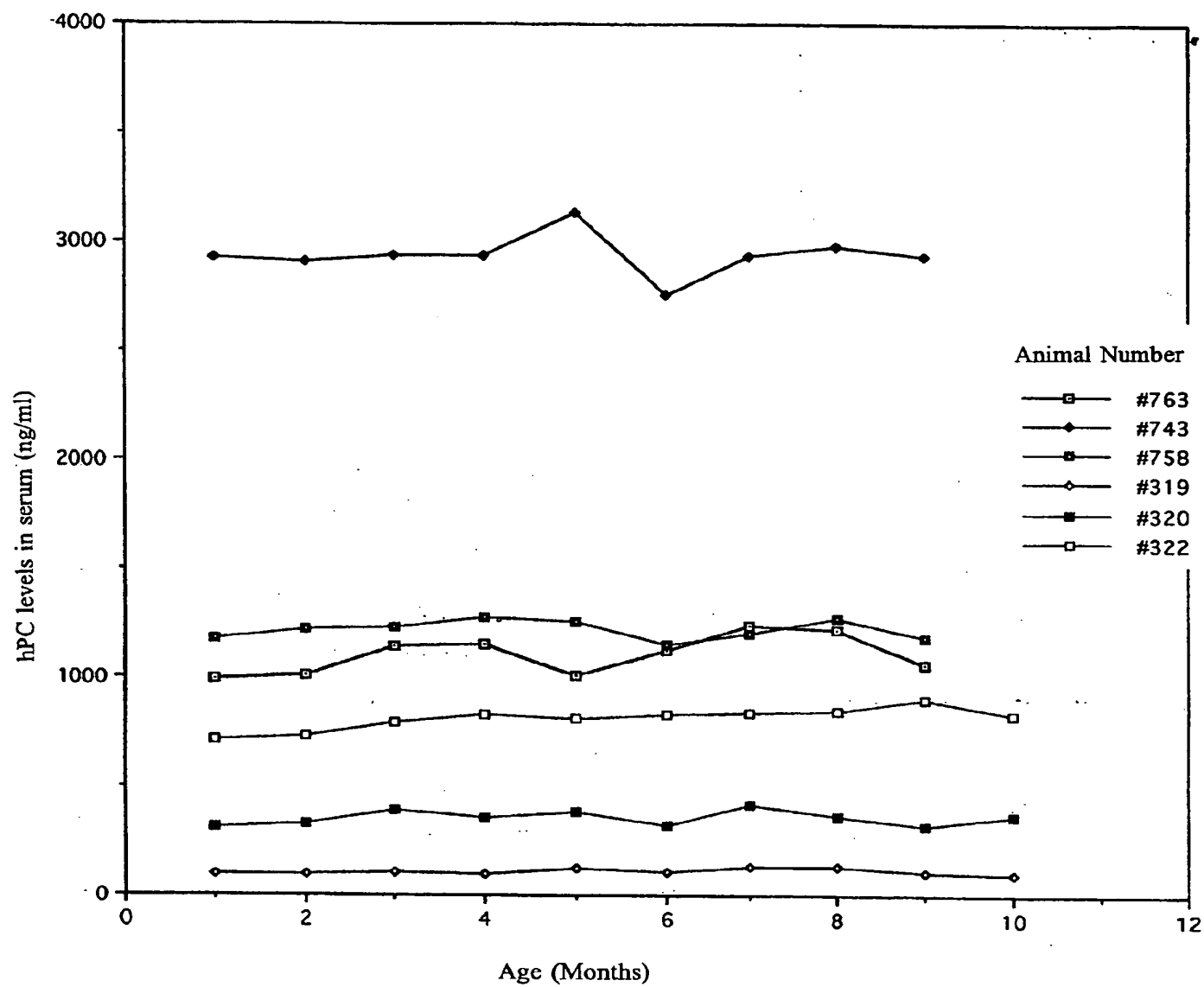


Figure 17B

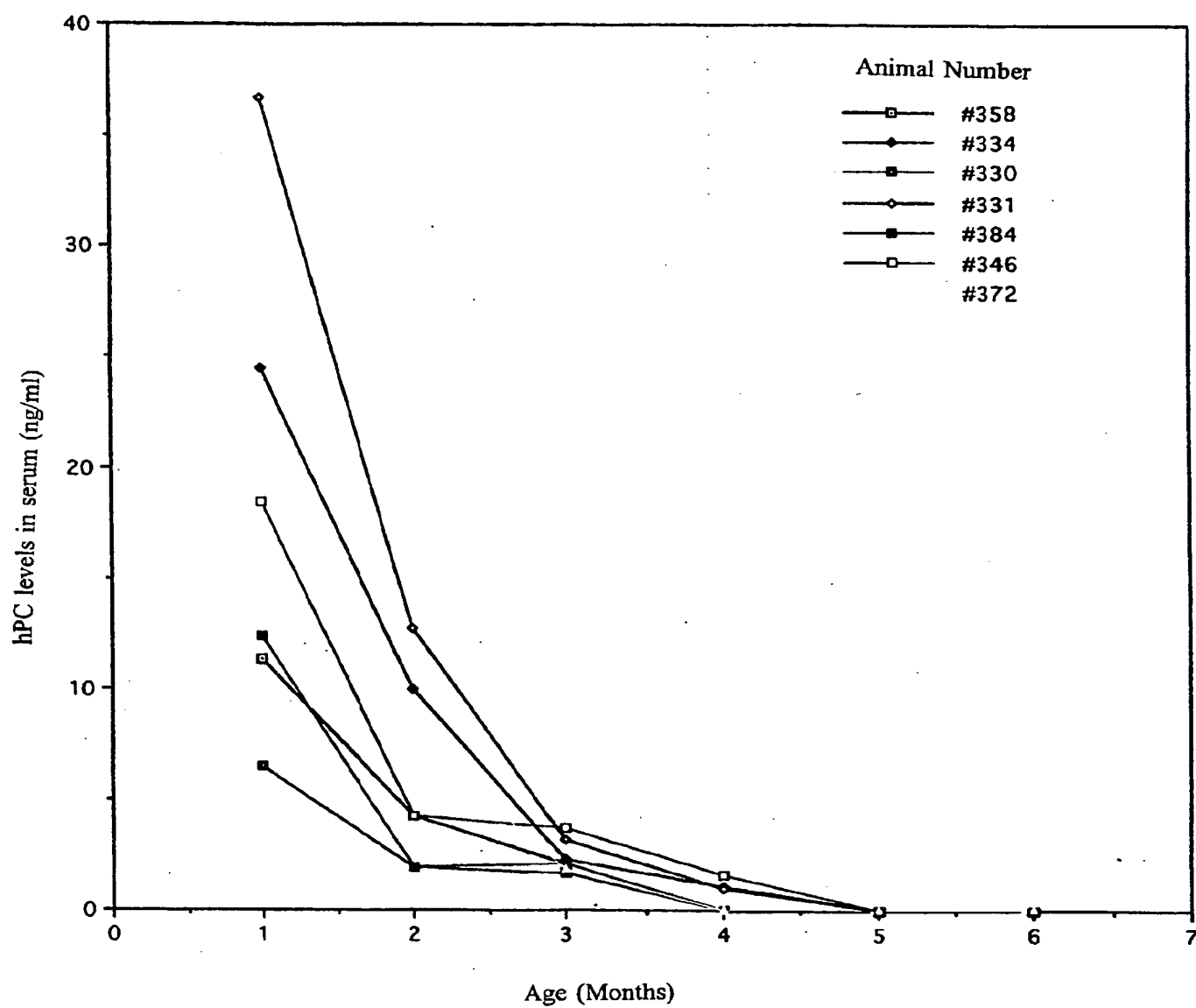


Figure 17C

